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VEGETABLE  
SEED  
EXHIBITION

*Diamond Quality*  
**SEEDS**  
*for Prosperous*  
**1934**  
**VEGETABLE AND  
FLOWER GARDENS**



# Helpful Hints

## to Amateur Gardeners

### Sowing Seed In Boxes For Transplanting

SEED boxes, or "flats," as they are commonly called are made about 24 inches long, 14 inches wide, and 3 inches deep. Deeper boxes are not advisable as too much soil will become heavy and sodden which will make the boxes difficult to handle.

Use a good light soil in your boxes and mix with  $\frac{1}{3}$  leaf mould or Peat Moss. Add not more than  $\frac{1}{2}$  inch of sand on the top of the soil, for the seeds to germinate in. Press the surface down smooth with a piece of board and after sowing cover with soil to the necessary depth. The depth will of course depend on the size and variety of the seed being planted.

An old fashioned method and a very good one is to spread a wet sheet of newspaper over the soil after seeding and by lightly watering the paper daily a constant moisture will be maintained and seeds will germinate quickly. Care must be taken to remove the paper as soon as the seedlings appear. Plants should be thinned out in the boxes to one inch apart each way, otherwise they will be weak and spindly. Transplanting is usually done when the plants are three or four inches high.

Paper pots can be used in which to raise seedlings if desired, and transplanting can be done as soon as the plants are ready. We handle all sizes of these pots. When transplanting it is not necessary to remove the paper pot which can be set right in the ground and will gradually decay. By growing the seedlings this way the roots of the small plants are not disturbed or broken when transplanting.

### Water Lilies For Garden Ponds

NO plants are easier grown than Water Lilies. There are many different types and hundreds of varieties that are too numerous to describe or mention in this limited space. It is more satisfactory when planting lilies to use boxes or pots rather than the loose soil at the bottom of the pond. After planting and when submerged, some sand or small rocks should be placed around the plant to prevent the loose soil from scattering and washing away.

Planting time depends entirely on locality. When vegetation commences and conditions are favorable the hardy varieties may be planted. Nelumbiums, Egyptian and Japanese Lotus, though hardy when established, are tender in their younger growth and should not be transplanted until warm weather comes. Tender Nymphaeas do well in just such places as the more hardy varieties; but it is not wise to expose them quite as early. These will give early flowers over a long season.

Obtain your plants or rhizomes from our mail order department and be sure to keep dead leaves and flowers picked off. Few, if any insects will be found troublesome. Green or black fly may be eradicated by washing off with the hose. We will gladly advise you as to varieties best suited to your particular location. Nothing will give more pleasure for the small amount of labor than a Lily Pond in your garden. Write for information, we would like to help you plan a garden pool.

### The Simple Secrets of Making Lawns

IT is not difficult to have a good lawn, provided good Grass Seed is used and a little attention given to ground preparation.

The preparation of the soil is much the same in all cases—occasionally unusual conditions exist which call for special treatment.

A rich soil is not necessary as humus and fertilizer, which are inexpensive, can be added to ordinary soils and a perfect lawn will result. May we suggest Peat Moss and Vigoro, the only eleven element fertilizer.

After clearing off the area, decide on the level or contours desired. Proceed to level in a rough way before starting to spade or fork over the ground. After this has been done, the ground should be spaded or forked over. Lawn grasses are not deep rooted but the condition of the soil will be greatly improved by a good, deep cultivation. After the area has all been worked it should be watered and left for a week or two to allow weed seeds to sprout. It may be necessary, according to the time of the year, to water frequently to get the soil moist and weed seeds to germinate.

### Final Soil Preparation

SOME soils are very sandy and lack fertility and moisture content. A top soil covering consisting of good loam about 3 inches thick combined with a good dressing of well-rotted manure will provide an ideal soil for lawns.

On the other hand, heavy adobe and clay soils will be improved by a generous quantity of sand and stable manure with a large proportion of straw in it well mixed in when spading the ground.

We have mentioned that the roots of grasses are not deep and for this reason we recommend that after the ground has been worked over and weed seeds sprouted a second forking over be done. Before doing this, however, a good dusting of Bone Meal should be applied to the soil and also a good dressing of humus (Peat Moss) should be spread on top. If cow or stable manure is available put on a layer of about an inch all over the surface.

Having done this, fork over the ground about 3 inches deep, mixing in the manure and bone meal thoroughly. Then rake over the surface to remove any stones and make the surface even. Remember, a little extra time spent in obtaining an even finish will help greatly toward an attractive finished lawn. If the soil is loose after raking it would be well to roll the ground with a light roller before seeding, but do not roll while the ground is wet.

### Seeding

THE ground having been prepared, the method of seeding is next to be decided. A pound of Grass Seed will sow 150 to 200 square feet according to the variety of seed use. An even distribution of seed is essential.

After the seed has been sown it should be covered lightly, about  $\frac{1}{8}$  to  $\frac{1}{4}$  inch in depth. This is best done by what is called "tucking" with a rake. Instead of using the rake with the usual raking motion forth and back, employ a light chopping action with only a very slight pull towards you. All of the seed will not be covered but sufficient will. After this, roll the area lightly. After rolling sprinkle the lawn well with a fine hose nozzle. Do not let the ground dry out but sprinkle a little every day. In the heat of summer if a lawn is being put in it is a good plan to cover the ground after seeding with some Peat Moss or Pulverized Sheep Guano.

### Early Care of Lawn

WHEN the young grass is about 2 inches high it should be mowed. Early mowing makes the plants spread out and fill up the areas between the seedlings.

Early weeding should also be done as soon as possible. The sooner the weeds are out the quicker the grass will fill in. **There is no weed seed in high quality grass seed.** A good lawn will require cutting twice a week. Remember, it is easier work to cut the lawn while the grass is short and will take half the time and effort, and it is better for the lawn.

After the lawn is well established it is advisable to use a grass catcher on your lawn mower or rake well after cutting with a bamboo rake.

To renovate an old lawn, sow some seed of the variety needed and then lightly scatter a little good soil or Peat Moss over the top. Water lightly a little each day if the weather is dry.

The best time for watering your lawn is just after sundown. The grass then slowly absorbs all of the moisture and is not dried out by hot sun.

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Observing these instructions will expedite the filling of your orders promptly and give us less cause for making mistakes.

Diamond Quality Seeds, bulbs and nursery stocks are guaranteed as to vitality and purity, but we give no warranty, expressed or implied, as to description or productiveness, neither will we be held responsible for the crop nor liable for more than the amount paid us for the seeds, bulbs or nursery stock should they fail to grow, we to replace or refund at our option.

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Dear Customer:

Perhaps you, like everyone else, who depend on their own efforts to raise good gardens or beautify their homes with growing things are looking forward to receiving the new 1934 Seed Catalogs with an eagerness to get your seed planted early.

This catalog will then be a welcome visitor and we hope that you will soon call on us to supply you with Diamond Quality seed, as you have so many times in the past.

This year you will find fresh Quality Diamond seed displayed in a great many more local stores so that you might make your selections at your own home store if it will be of any convenience. However, our Mail order department will gladly supply you fresh, clean tested Diamond Quality seed as they have in the past, if it is your pleasure to have us so serve you.

You have our sincere thanks for the many times you have called upon us for seed supplies. You also have our promise that Diamond Quality seeds will continue to grow bountiful crops when weather and soil conditions are favorable.

May 1934 be the turning point for you with the result of better and more prosperous times. A well cultivated garden will help in doing your part.

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F. L. Trullinger,  
President



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MEMBER OF THE AMERICAN SEED TRADE ASSOCIATION



## An Inexpensive Luxury—FLOWERS



### ASTERS

The Pacific Northwest, with its mild, cool climate, is ideal for the growing of Asters. Every home in this locality should have a bed of these lovely flowers. (h h A)

For fall flowers they rival the ever-popular Chrysanthemum in size as well as beauty.

**CALIFORNIA GIANT SUNSHINE** • An improved Anemone type with many strong bushy stalks, topped with large single flowers, centers of twisted and quilled petals of contrasting colors. Their delicate beauty and keeping qualities make them ideal for cutting. **COLORS:** White, pink, lavender, violet, carmine and mixed.

**IMPROVED CREGO GIANT:** Truly the finest and largest of all Comet type Asters. Magnificent flowers of rare beauty, form and color distinct in every way. **COLORS:** White, shell pink, deep rose, crimson, orchid, azure blue, purple and mixed.

**CALIFORNIA GIANTS:** A combination of robust growth and lengthy stems. A true non-lateral variety with flowers of the "beauty" and "crego or ostrich feather" types. **COLORS:** White, peach blossom, light blue, deep rose, dark purple and mixed.

**AMERICAN GIANT BRANCHING:** The branching habit is accompanied by vigorous growth and profusion of blooms. Large double flowers; long stiff stems. Very artistic in appearance and extensively grown for cutting.

**CREGO WILT RESISTANT:** Outstanding for cutting with large colorful blossoms. A very popular variety for the lazy gardener. Mixed.

**QUEEN OF THE MARKET:** The outstanding early Aster. Blooms two weeks earlier than any other varieties. **COLORS:** White, light blue, deep rose, scarlet, purple, peach blossom and mixed.

**EARLY WONDER:** Large, double flowers on excellent stiff stems. **COLORS:** White, light blue, dark blue, rose, crimson and mixed.

**PERENNIAL ASTER:** (Michaelmas Daisy) A beautiful flowering perennial that is rapidly becoming popular on the Pacific Coast. Only in mixed colors.

**ASTER MUM:** Greatly resembles the Chrysanthemum. Plants are vigorous with good stems. **COLORS:** White, rose, lavender and mixed.

**HEART OF FRANCE:** The best red Aster on the market. Produces an abundance of large flowers on good stems.

**AGERATUM:** (h A) Small balls of color in sizeable clusters. Constant bloomers from early summer until late fall. Excellent for edging.

**Blue Perfection (Nanum):** Deep amethyst-blue flowers in large clusters.

**Album:** Beautiful pure white.

**Little Dorrite:** Light blue and grows only six inches in height.

**ALYSSUM (Benthami Martimum)** (h A): White, sweet scented edging and basket plants. For borders sow thickly.

**Sweet Alyssum:** Beautiful white, honey scented flowers. Begins blooming early in season and continues until frost. Not over 6 inches in height.

**Little Gem:** Makes a perfect "blanket of snow" not over 4 inches in height.

**Sweet (Maritimum):** Delightful in small bouquets. Clusters of 4 petaled, delicately scented flowers.

**Lilac Queen (Compactum erectum):** A mass of delicate lavender flowers.

**Dwarf Mixed:** Small bunches of beautiful mixed blooms.

**Gold Dust (Saxatila Compactum):** (P) Grows compactly and is covered with golden blossoms in late spring.

**AMARANTHUS:** (h A) Handsome foliage and interesting flowers, making a striking effect in borders and beds. Thrives well in hot, sunny situations with rather poor soil. Grows from two to five feet and should be planted early, then transplanted.

**Candatus (Love Lies Bleeding):** Rapid growing garden annual with long, drooping crimson flower spikes. Height three feet.

**Joseph's Coat (Tri-color):** Very brilliant foliage of scarlet, yellow and green.

**Mixed Amaranthus:** Beautiful brilliant flowers of true color.

### Other Varieties of Flower Seed

**Arabis (Rock Cress):** Clear white flower.

**Anchusa:** Bright gentian blue.

**Acroclinium (Everlasting Straw Flower):** Double mixed.

**Ampelopsis (Virginia Creeper).**

**Ampelepis (Boston Ivy).**

**Anemone (Wind Flower):** St. Brigid, French fine mixed.

**Antigonon (Mountain Rose Coral Bells).**

**Armeria (Sea Pink):** Maritima lilac rose.

**African Daisy:** Improved orange and Hybrids mixed.

**Agrostemma (Rose of Heaven).**

**Aubrietia:** Large flowering Hybrids.

**BALLOON VINE (Love-In-a-Puff):** (h A) A rapid growing climber; succeeds best in light soil and warm situation. Blossoms are very small and pure white. Light graceful foliage. Bears curiously inflated seed pods. Sow where it is to remain.

**BALSAM (Lady Slipper):** (h A) Very handsome plants, producing masses of various colored flowers. Curious seed pods which when ripe, will explode when touched. If sown in May should bloom from July until frost. 1 to 1½ feet tall.

**Double Camelia Flowered:**

Light Pink.

Scarlet.

Mixed.

**BEGONIA:** (t P) One of the most popular house plants.

**Gracilis:** Small, pink flowers in great profusion.

**BROWALLIA (Amethyst):** (h A) A beautiful plant with blue and white blossoms. Especially nice for window boxes. Blooms profusely during summer and fall. Mixed seeds.

### Other Varieties of Flower Seed

**Bartonia (Blazing Star)** (h A).

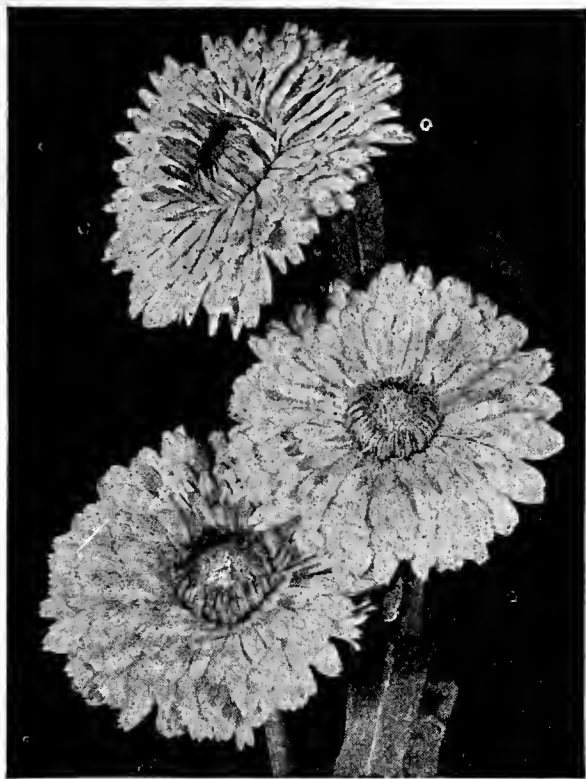
**Bachelor Button** (h A): Double blue (florist strain); Double mixed; Single mixed.

**Bellis (English Daisy)** (h P): Red, rose, white, Long-fellow extra double and mixed.

**Blue Lace Flower.**

ALL FLOWER SEEDS 10c PACKET (except where noted)





CALENDULA

**CALENDULA (Pot Marigold):** (h A) An excellent flower of exceeding beauty. Fine for gardens, potted, or cut flowers. Blooms the entire year if climate permits.

**Radio:** A novel development of great popularity. The flowers are deep orange, globular shaped with bristling quilled petals, which add materially to the grace of the blossoms.

**Ball's Gold:** Mammoth, double flowers of improved type. Deep golden yellow.

**Ball's Orange:** Double orange type of the above. Excellent for cutting.

**Campfire:** A beautiful dark orange and scarlet sheen.

**Double Mixed:** Beautiful double blossoms of mixed colors.

**CALLIOPSIS:** (h A) Very graceful for border plants, supplying throughout the summer an abundance of elegant showy flowers of: yellow, crimson and maroon. They are outstanding for cut flowers. Sow where plants are to remain.

**Tall Single Mixed.**

**Tall Double Mixed.**

**Dwarf Crimson King.**

**Drummond's Golden Wave:** Dark brownish-red with golden yellow center.

**CANDYTUFT (Iberis):** (h A) A very highly prized showy, branching plant. Excellent for beds, masses, rock gardens and cut flowers. Has very beautiful fragrant blossoms.

**Coronaria:** Giant white hyacinth flowered.

**Umbellata Type:** Mixed, Crimson, Lilac, Rose, Cardinal, White.

**CANARY BIRD VINE:** (h A) A rapid growing annual climber, the yellow blossoms bearing a resemblance to a bird with its wings half extended.

**CANTERBURY BELLS:** These beautiful flowers are very popular with northwest "flower-lovers." The real bell flowers of all sizes and colors. Every garden, small or large, has a spot for such lovely blooms.

**Campanula Medium:** Imposing branching plants heavily loaded with large pendant bells. Two varieties: Single mixed and double mixed.

**Calycanthema (Cup and Saucer):** (h B) A beautiful and distinctive type laden with flowers, each of which is a large cup-shaped bell with saucer. Comes in five varieties: light blue, dark blue, rose, white and mixed.

**CARDINAL CLIMBER:** (h A) Considered by many garden lovers as the most beautiful annual climber. A strong, rapid grower with fern-like foliage. Literally covered with a blaze of circular cardinal red flowers, from mid-summer till frost.

**CARNATION (Dianthus Caryophyllus):** (t P) Beautiful, colorful, fragrant blooms with sturdy stems. Being easily winter killed should be sown indoors during March. Transplant to other boxes when 1 inch high. Transfer to open garden when soil becomes warm. **COLORS:** Pink, white, red. Height, 1 to 1½ feet.

**Chabaud Double Giant:** A new variety, blooms six months after seeded. **COLORS:** Double cardinal red, double deep rose, double flesh pink, and double mixed.

**Margaret:** Very popular double mixed. Blooms four months after seeded.

**American Hybrids:** Large flowering type. Very popular with florists.

**CASTOR BEAN (Ricinis):** (t P) Tropical appearing foliage plant. Highly ornamental, with bronzed metallic foliage and bright colored seed pods. Grown singly it forms a picturesque pyramid. From 3 to 5 feet high.

**Pkt. 5c.**

**Gibsoni:** Striking foliage of dark red.

**Outstanding mixed varieties.**

**CHRYSANTHEMUM:** (h A) Attractive long-stemmed summer flowering plant, wide varieties of color. Sow seed in flats and transplant when soil is warm. Height from 1 to 2 feet tall.

**Coronarium:** Double, finest mixed.

**Carinatum:** Single mixed.

**Carinatum:** Tall double yellow and tall double mixed.

**CINERARIA:** (t P) Magnificent and indispensable flowering plants for window gardens. White, blue, violet, crimson shades, covering the plant with a sheet of blooms. Should be sown under glass in fine soil.

**Hybrida Grandiflora:** Semi-dwarf, extra choice mixed. **Pkt. 35c.**

**Hybrida Grandiflora:** Star flower mixed. **Pkt. 25c.**

**Hybrida:** Ordinary mixed. **Pkt. 15c.**

**CLARKIA (Rocky Mountain Garland):** (h A) A beautiful native flower of the Pacific Coast. Does very well in shady places and is excellent for cutting. Produces bright attractive flowers massed in beds. Height, 1 to 2 feet.

**Scarlet Queen:** A brilliant bloom of distinction.

**Salmon Queen:** A deep pink, with fine foliage.

**Firebrand:** Deep orange scarlet.

**Brilliant:** Bright carmine.

**COSMOS:** (h A) The flower of beauty! These plants furnish an abundance of cut blooms during the early flower season. Seed sown in the open ground in April should bloom in July. Transplant not less than 18 inches apart in rows or mass beds. Pinching out top when plants are a foot high makes them bushy and sturdy.

**Extra Early Double Crested (Anemone Flowered):** Pink Beauty and White Queen, and fine mixed.

**Extra Early Mammoth Flowering:** Light pink and crimson.

**Klondyke:** Large orange.

**Late Flowering Mammoth:** Mixed.

**CYPRESS VINE (Ipomoea Quamoclit):** (h A) A climber of rapid growth. Delicate, fern-like foliage and great numbers of star-shaped blossoms with long tubes. Does best in warm, sunny locations. Grows 10 to 15 feet.

**Scarlet and Mixed.**

**COLUMBINE (Aquilegia):** (h P) Every garden should have an assortment of this lovely, graceful plant. They look frail but are hardy and will thrive in almost every situation, preferring partial shade and considerable moisture. **Pkt. 15c.**

**Long Spurred Mrs. Scott Elliott:**

**Blue Shades.**

**Pink Shades.**

**Copper Queen.**

**Silver Queen.**

**Double Mixed. Pkt. 10c.**

## Other Varieties of Flower Seed

**Celosia Cristata (Cockscomb):** Crimson and mixed.

**Celosia Plumosa (Cockscomb Feathered Type):** Fiery red, yellow, mixed.

**Chinese Wool Flower:** Crimson.

**Cerastium Tomentosum (Snow in Summer):** White.

**Cobea Scanderns (Cathedral Bells):** Purple.

**Coleus Hybridus Mixed. Pkt. 15c.**

**Cheiranthus-Allioni (Siberian Wall Flower):** Brilliant orange.



DAHLIA

**DAHLIA:** (t P) To grow these beautiful flowers from seed does not require the skill of an expert. Sow seeds in boxes indoors very early, transplanting to open, when danger from frost is past. They will bloom the first season. Tubers of the best may be used the next season.

**Coltness Mignon:** A beautiful dwarf variety. Excellent for bedding.

**Double mixed and Single mixed.**

**DAISY:** (h A) A flower every Pacific Coast garden should have. Beautiful true color blooms, excellent for cut flowers or open gardens.

**African Daisy (Arctotis Grandia):** A useful and charming cut flower from June till late frosts. Will last a week or two in water, undeveloped buds opening up perfectly if kept in sunshine. Plants form bushes about two feet across. Deep foliage and daisylike flowers, pale lilac color.

**Orange African Daisy:** Extremely showy annual with bushy plants 12 to 15 inches high. Flowers are 2½ inches across, rich orange gold, with dark disc and halo. A magnificent sight in bloom.

**DELPHINIUM:** (h P) Due to recent improvements, this flower has become the most popular tall growing perennial on the west coast. Our seeds come from the improved original strains found on the north coast of Wales. The range of colors run to the most delicate combinations of mauve and light blue, Crater Lake blue, heliotrope, pinkish-lavender, deep blues and purples.

**Wrexham Hollyhock Strain.** Pkt. 15c.

**Gold Medal Hybrids.** Pkt. 15c.

**Bellamosa.**

**Finest Mixed.**

**Belladonna.**

**Sinensis, Azure Fairy.**

**DIGITALIS (Fox Glove):** (h P) Has the quaint charm of an old-fashioned garden. Long spikes that are crowded with large thimble-shaped blossoms beautifully spotted. Colors of: purple, rose, white, mixed.

**EVENING PRIMROSE (Oenothera Lamarckiana):** (h B) Outstanding for exposed positions, in border or rockery. A constant bloomer all summer. Shades of yellow. Sow seeds early in boxes covering very lightly with fine soil firmly pressed down.

### Other Varieties of Flower Seed

**Everlasting Flowers:** Fine mixed.

**Euphorbia, Heterophylla (Annual Poinsettia).**

**ALL FLOWER SEEDS 10c PER PACKET**  
(except where noted)

**FOUR O'CLOCK (Mirabilis Jalapa):** (t P) These flowers make an excellent combination with "Moon Flowers." Their blooms open at four o'clock and close at sunrise. Early culture, bearing a profusion of bright flowers of various shades. Sow seed early in the open and transplant. 2 to 3 feet in height.

**Choice Mixed.**

**FORGET-ME-NOTS (Myosotis):** (h h P) Excellent for the shady damp spot in your garden. Start early for flowers the first season or sow in summer for blooms the following spring.

**Blue, Dwarf Sky Blue and Mixed.**

**GAILLARDIA (Blanket Flower):** (h A) Its brilliant flowers are among the gayest ornaments in the summer gardens. Free blooming from early summer until autumn frosts. These beautiful flowers are very effective as border plants or cut flowers. Colors of striking yellow, crimson and orange.

**Picta Lorenziana:** Finest mixed double annual.

**Picta Single.** Outstanding splendid mixed.

**Perennials:** Picta Hybrids and Fine Mixed.

**GERBERA (Transvaal Daisy):** (t P) Another colorful African Daisy variety of uniform beauty. Does best in warm situations or corners well protected from early frosts. We offer a splendid mixture of hybrids of this beautiful flower, shades ranging through red, cerise, salmon, orange, yellow and white. Pkt. 15c.

**GERANIUM (Pelargonium):** (t P) This universally known and best liked flower is very easily grown from seed. Sow thinly in boxes indoors, covering with glass until seedlings appear. When about 1 inch high, transplant to small pots in rather poor soil, firmly pressed down. Later re-pot or transfer to open ground.

**Zonale:** Extra choice, single mixed. The well known bedding geranium.

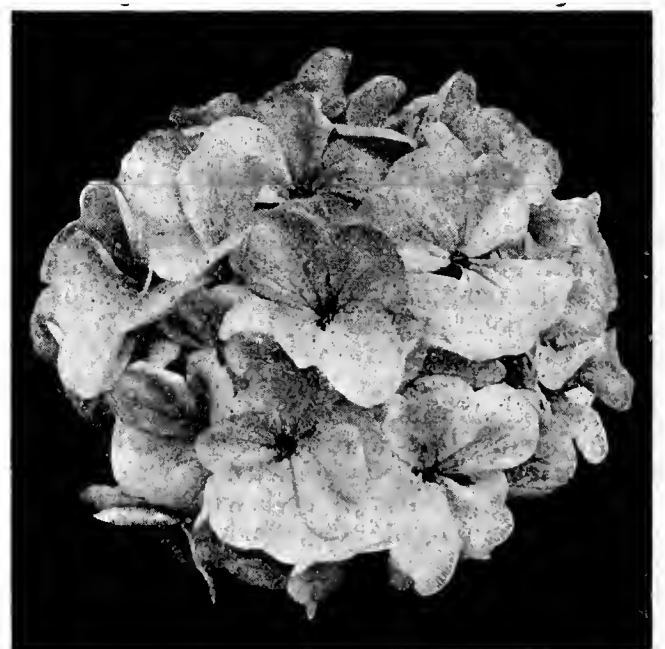
**Lady Washington:** Foliage green, flowers large. Finest mixed. Pkt. 15c.

**GOURDS:** (h A) A sturdy and rapid grower with excellent climbing ability. Especially fine for covering verandas and trellis work. Bears large tubular flowers of white or yellow, followed by curiously shaped fruits which often resemble familiar objects, such as eggs, oranges, dipper, club or pitcher. When ripe they will keep indefinitely. Plant after soil is warm.

**Large Calabash.**

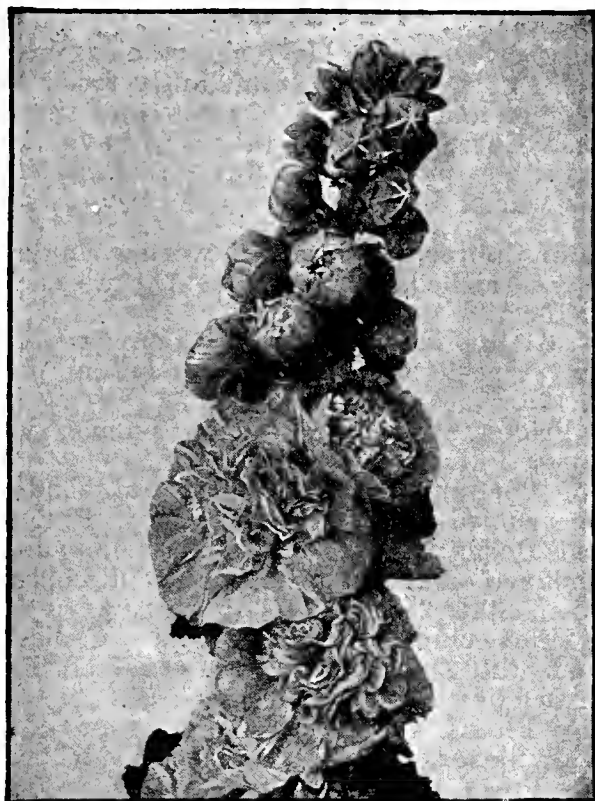
**Large Dipper.**

**Large Mixed and Small Mixed.** Pkt. 5c.



GERANIUM

**ALL FLOWER SEEDS 10c PACKET (except where noted)**



HOLLYHOCK

**GODETIA:** (h A) Is especially suited to situations in partial shade and thrives in rather poor soil. Bushy growth, profuse, constant bloomers. For best results sow indoors and transplant.

**Common Variety:** Rose, crimson, white and pink.

**Dwarf Varieties:** Rose, crimson, white and pink.

**Tall Double Azelin Flowered:** Carmine, crimson, lavender, rich pink and mixed.

**GYPSOPHILA (Baby Breath):** (h A) These light airy plants have little foliage but produce a very lovely effect in the garden. They are unexcelled in their ability to add much charm to bouquets. Easily raised from seed. Plant very early in flats, transplanting when soil becomes warm.

**Grandiflora Alba:** True white. Convent Garden strain.

**Grandiflora Rosea:** Pink form of the above. Very desirable.

**Perennial:** Paniculata Alba; single.

**GEUM:** (h P) Flowers like little double roses are gracefully poised on long stems over a thick rosette of strawberry-like leaves.

**Mrs. Bradshaw:** Beautiful scarlet.

**Lady Stratheden:** Brilliant golden yellow. Pkt. 15c.

**HELICHRYSUM (Monstrosum):** (h A) The finest everlasting for the home garden. This hardy annual makes an excellent winter bouquet with its red, yellow and white flowers. Sow in open and transplant or thin to twelve inches apart.

**Double Golden Ball.**

**Salmon Queen.**

**Scarlet Queen.**

**Silvery Pink.**

**Double Mixed.**

**HOLLYHOCKS (Hybrida Semperflorens):** (h A) This splendid new variety will bloom early in August, from spring planting, continuing until frost. As you know, the other varieties do not bloom until the second year, making this an exceptionally fine creation.

**Finest Single and Semi-Double Mixed.**

**Perennials:** Chaters Double Salmon Rose.

**Rose Pink.**

**Yellow.**

**Scarlet.**

**Mixed.**

**Chaters Single Mixed.**

**HUNNEMANNIA (Giant Yellow Tulip Poppy):** (h A) Another golden yellow poppy, pleasing both in the border and as a cut flower. The plants grow into shrubby bushes, producing their large cup-shaped flowers 3 inches across on stems 12 inches long.

**HYACINTH BEAN (Dolichos Lablab):** (h A) A climber that grows rapidly and produces many heart-shaped leaves and numerous erect spikes of pea-like flowers. Beautiful purple and white blooms.

## Other Varieties of Flower Seed

**Heliotrope:** Blue and mixed.

**Heuchera (Coral Bells):** Sanguinea and crimson.

Pkt. 15c.

**Humulus (Japanese Hop).**

**Helianthus (Sunflower):** Excelsior double mixed, dwarf chrysanthemum flowered.

**ICE PLANT (Mesembrianthemum Crystalinum):** (h A) Pretty summer trailing annual for vases and rock work. Leaves covered with ice-like drops. Sow seed early in boxes. Height 6 to 12 inches.

**JOB'S TEARS (Coix Lachryma):** (h A) The narrow corn-like leaves of this odd ornamental grass bear numerous little sprays of flowers. Grows 12 inches high.

**KOCHIA CHILDSII (Summer Cypress):** (h A) This gracefully poised plant forms symmetrical decorative bushes. Green foliage turning fiery red in autumn. Grows 1 to 2 feet tall.

**KUDZU VINE (Jack-and-the-Bean-Stalk):** (h P) A great climber! Will grow from 8 to 10 feet the first season. When once established it may grow from 40 to 50 feet a season.

**LARKSPUR:** (h A) One of the important families of annuals that have been greatly improved by modern breeding methods. Flowers quickly form after plant is once established. A late bloomer, furnishing flowers of striking beauty in form and color.

**Tall Double Varieties:** Peach Blossom.

**Stock Flowered,** carmine, light and dark blue, rose, white and mixed.

**Exquisite Improved,** delightful pink.

**Rose Carmine.**

**Los Angeles:** Brilliant rose on salmon.

**LINUM:** A variety of the flax family. Slender foliage and dainty in appearance make them very suitable for growing in beds or low borders.

**Grandiflorum Rubrum (Scarlet Flax):** (h A) Scarlet-crimson flowers with fine foliage.

**Perenne Blue:** (h P). Graceful form with arching stems carrying small sky-blue flowers.

**LUPINUS (Hartwegi):** (h A) Dark blue, sky blue, and mixed. (h P) mixed.

**LOBELIA:** (h A) Delicate, low-growing annual plants of the greatest value for borders, rock work and hanging baskets. Sow very thinly in boxes, covering with glass until seedlings are through soil. Height 6 to 8 inches.

**Crystal Palace Compacta:** Dwarf flowers, rich, bright blue. Excellent for bedding.

**Gracilis:** Blue, trailing. Beautiful for baskets.

**Pumila Rosea:** Dwarf, pink variety.

**Sapphire:** Deep blue with white eye, trailing variety.

## Other Varieties of Flower Seed

**Linaria (Toad Flax):** Macedonica: Golden Yellow; Hybrid Mixed.

**Lychnis:** Chalcedonica, a beautiful flaming scarlet.

**MIGNONETTE:** (h A) A delicious scented little flower which the French have named "Little Darling." A graceful foliage of dark green leaves which bear spikes of unassuming blossoms very useful in combination with showier cut flowers that lack fragrance.

**Odorata Grandiflora:** Large fragrant flowers.

**Victoria Perfecta:** Beautiful foliage with brilliant red blooms.

## SPECIAL FLOWER COLLECTION

### No. 1

(please order by number)

**GYPSOPHILA.** Very lovely white flowers.

**CLARKIA.** A native flower of the Pacific Coast.

**AGERATUM.** Small balls of delicate color.

**JOB'S TEARS.** Outstanding foliage and nice blooms.

**A 40c value — Special 25c**



**MARIGOLD (Tagetes):** (h A) These plants supply an abundance of blooms late in the season, when most summer flowers have passed their prime. The bright green foliage is finely cut, and the stems are stout. Tall Marigolds give charm to the border, while the dwarfs are valuable for bedding and make ideal edging plants.

**Guinea Gold:** A gorgeous orange with loosely ruffled petals. The plants bloom freely and practically all the blooms are double.

**Dwarf French Single: Diadem:** A mahogany red with golden edge.

**Gold Star:** Yellow striped maroon.

**Single Mixed.**

**African Tall Double: Orange Ball.**

**Lemon Ball.**

**Mixed Ball.**

**Josephine:** Tall, single bi-color.

**Little Brownies (Legion d'Honneur):** Dwarf double.

**Signata Pumila:** Very dwarf, bright orange.

**MOON FLOWER (Ipomoea Mexicana Grandiflora):** (h A) Excellent for screens over porches and arbors because of their luxurious and rapid growth. At night and on cloudy days the vines are covered with fragrant white flowers 4 to 5 inches in diameter. A member of the "Morning Glory" family.

**MORNING GLORY:** (h A) Nature's finest covering for garden fences and walls. The heart-shaped leaves are of true green color, the numerous trumpet-shaped blossoms come in beautiful clear colors. They open in the early hours of dawn and close at night fall.

**Convolvulus Major:** Tall, choice single, a mixture of all colors.

Tall, choice double mixed of all colors.

**Imperial Japanese Fringed:** Very large, fringed flowers in a variety of exquisite colorings; variegated foliage.

**Heavenly Blue:** Blossoms of true exquisite color.

**MIMOSA (Sensitive Plant):** (h A) With leaves that droop and fold at the slightest touch make this plant an interesting feature for any garden. It also droops at night and during damp weather. The plants bear small rosy-lilac blossoms.

**NASTURTIUMS:** (h h A) A flower introduced to this country by a traveler returning from Peru. It starts blooming early and continues throughout the entire summer months. A flower that should be found in every garden.

**Dwarf Empress of India:** A beautiful deep scarlet.

**Dwarf Varieties Mixed:** All shades that blend well with all flowers. Pkt. 5c; oz. 15c.

**Tall Varieties Mixed:** Same shades as dwarf.

Pkt. 5c; oz. 15c.

**GOLDEN GLEAM NASTURTIUM:** The newest and finest flower improvement that has been introduced to the American public in past few years. Truly a beautiful flower. Rich golden yellow, sweet-scented, semi-trailing habit. Large double blooms on 6-inch stems. oz. 30c.

**NICOTIANA:** (h h A) The flower of fragrance that sweetens the air like rare perfume. A very showy plant, producing star-shaped flowers. If taken up in the fall, potted and cut back, it will bloom freely during the winter months. Grows to a height of 3 feet. Sow seeds in boxes indoors or in a well protected place. For the best results give plenty of room, rich soil and sunlight.

**Crimson King:** A beautiful dark velvety crimson red.

**Mixed Variety:** Several shades of distinctive true colors.

### Other Varieties of Flower Seed

**Nemesia:** Blue Gem, Fire King, Orange Prince, Mixed.

**Nigella (Love in a Mist):** Hispanica Blue, Miss Jekyll, Double Blue.

**Nepta (Graycatmit):** Mussini, Blue.

## PETUNIA

Beautifully covered with large showy blossoms throughout the entire flower season. Constantly fresh and bright colors, markings and forms. Sow seeds very thinly indoors under glass. Care should be taken to save the weaker seedlings, as they produce the finest flowers. Transplant when soil is warm. (h A).

**Giants of California:** Large flowering single petunias.

Choicest ruffled, large throat varieties. Mixed.

Pkt. 15c.

**Dwarf Giants of California:** Compact form of the above. Excellent for potting or border planting.

Pkt. 15c.

**Elk's Pride:** A beautiful deep purple, with large blooms. Pkt. 25c.

**City of Portland:** A most beautiful shade of pink. Large ruffled flowers on fine stems. Pkt. 25c.

**General Dodds:** A blood red blossom, supplying an abundance of bright color for a dull corner in your garden. Pkt. 25c.

**Large Flowering Double Petunia:** Choicest double mixed. Pkt. 25c. Double fringed mixed. Pkt. 35c.

**Single Bedding Petunias:**

**Balcony Blue:** A splendid free flowering type. For window boxes, bedding, vases, hanging baskets, etc.

**Balcony Rose:** Same as above only brilliant rose pink. Very effective.

**Balcony White:** A beautiful clear white of the Balcony variety.

**Rose of Heaven:** A dwarf variety. Rich, rose pink. The most exquisite shade in petunias.

**Rosy Morn:** Pink with a lovely white throat. Excellent for bedding.

**PHLOX DRUMMONDI:** (h A) Phlox was first discovered by the early settlers of Texas. Since, it has traveled around the world, beautifying gardens in every little corner of the earth. It is unrivaled for richness and beauty of colors, ranging from white to the deepest purples and scarlets. Unexcelled for low table bouquets, as their brilliant colors add much in making a fine meal better.

**Large Flowering Varieties:** Chamois Rose: Carmine eye.

Crimson.

White.

Scarlet.

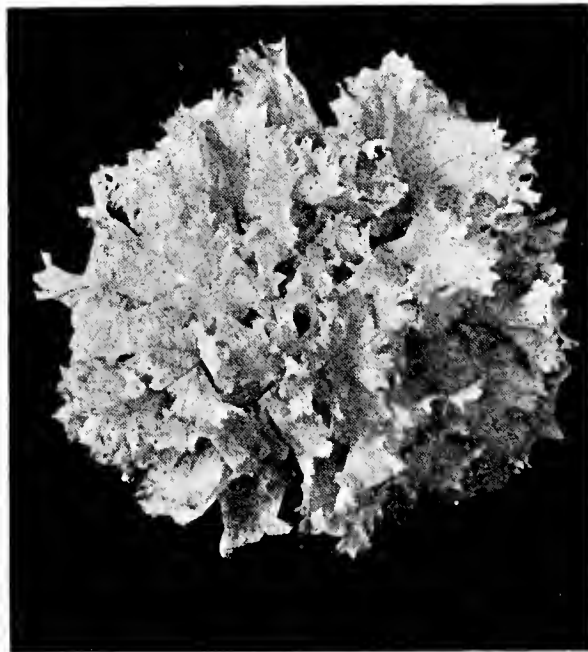
Mixed.

Isabellina: Pale yellow.

**Star Phlox:** The flowers have a distinctive star-like appearance, with a white margin. Truly exquisite for bouquets. Mixed.

**Dwarf Choice Mixed Phlox.**

**Decussata Perennial Mixed Phlox.**



DOUBLE PETUNIA

**VIGORO**  
Complete plant food

ALL FLOWER SEEDS 10c PACKET (except where noted)



## PANSY

It takes many years to develop perfect strains and great care to keep them stable. Diamond Quality Pansy Seed is of the highest strains and the outstanding varieties. (h A).

**Swiss Giants:** Mixed.

**Oregon Giants:** Mixed.

**Adonis:** Beautiful light blue with white center and dark blotches.

**Cornflower Blue:** Dainty blue color and large blossoms.

**Giant Dark Blue:** A distinct bloom. Blue-black.

**Giant Striped:** Superior strain with beautiful striped markings.

**Golden Queen:** Rich, pure yellow, well-formed flowers.

**King of the Blacks:** Immense giant velvety blooms. The largest of the black varieties.

**Madame Perret:** A distinct type with frilled edge petals. Colors: Dark wine, pink, red. Has sweet fragrance.

**Snow Flake:** Pure white. Of extremely fine quality.

**Violet Blue:** A new giant variety of dark indigo blue.

**Masterpiece (Giant Ruffled):** One of the most distinctive varieties of pansies offered today.

**Trimardeau Pansies:** Remarkably large and a robust grower. Excellent colors of mixed shades.

## POPPIES

If you haven't Poppies in your garden you have certainly noticed a lack of color in one or two spots. With their wide range of magnificent colors it is impossible to have a beautiful "rainbow" bed in a dull corner that now lacks gaiety. Sow seeds very early where they are to remain. Barely cover seed with fine soil and press down firmly. Thin to one foot. If blooms are cut before fully open they will last several days.

**Carnation Flowered** (tall double): Salmon pink and mixed.

**California Poppy (Eschscholtzia):** Commence to bloom within a few weeks' time and bloom continuously until late fall.

**Aurantiaca:** Rich orange blooms, true Californian.

**Hybrida Mixture:** New, large flowering type. New colors: Soft pink, scarlet, chrome, copper red, claret and royal purple.

**Dwarf Erect:** Mixture.

**Spreading Varieties:**

**Aurantiaca (California Poppy):** Orange.

**Mikado:** Orange crimson.

**Rosy Queen:** Rose pink.

**Salmon Beauty:** Light salmon.

**Sunlight:** Bright lemon.

**Tango:** Bronze red.

**Mixed and Brilliant Mixed.**

**Shirley Poppy Single.**

**American Legion:** Brilliant orange scarlet.

**Picotee:** White, edged with scarlet.

**Wild Rose:** Pink.

**Mixed.**

**Shirley Poppy Double.**

**Dazzler:** Orange scarlet.

**Pink Shades.**

**Salmon Art Shades.**

**Paeony Flowered**—plane edge.

**Cardinal Red.**

**Mixed.**

**Nudicaule (Iceland Poppy) (P).**

**El Monte:** Deep tangerine orange.

**Sunbeam Hybrids:** Mixed.

**Giant Flowering Strains.**

**Sandford's Giants:** Mixed.

**Oriental Poppy (P):** Mixed.

**King Edward:** Single large flowers. Deep scarlet, shaded crimson with black spots.

**Glaucum (Tulip Poppy):** Brilliant scarlet flowers, 3 inches across.



## PINKS

Their gay blossoms on strong stems come in varieties of colors and their stripes and markings make them especially attractive for border plants. They are quite suitable for cutting and have easy culture. (h A).

**Chinensis:** Single mixed, double mixed.

**Heddewigi:** Finest single mixed.

**Fire Ball:** Double scarlet.

**Salmon King:** Double deep pink.

**Snowball:** Double white.

**Finest Double Mixed.**

**Clove Pinks:** Pheasant's Eye (single mixed).

Double mixed.

**PORTULACA (Rose Moss):** (h A) An exceptionally fine flower for dry sunny spots where most plants are unable to thrive. A dwarf plant only 6 inches in height and blooms profusely from early spring to late summer. Brilliant colors of: Red, yellow, pink, white, striped. Sow seed indoors and transplant at early spring warmth.

**Single Mixed.**

**Double Mixed.**

**PRIMULA (Primrose):** (h P) A favorite for growing outdoors in mild climates and very fine for potting, flower baskets and window boxes.

**Malacoides (Baby Primrose):** Light lilac and mixed.

**Kewensis:** Golden yellow. Pkt. 15c.

**PHYSALIS (Chinese Lantern):** These plants will add a bit of Oriental touch to your garden. Its lacquer red blooms have much gaiety and charm. If planted among Gypsophila (Baby Breath) you will have a beautiful growing bouquet.

**Francheti.**

## Other Varieties of Flower Seed

**Pyrethrum:** Single and double mixed.

**Pentstemon:** Sensation, mixed.

**Passiflora (Passion Flower):** Mixed.

**SALVIA (Flowering Sage):** Very ornamental. Flowers borne in spikes of fiery red or crimson. Continues to bloom in open ground until after severe frosts. Sow in flats and transplant into light soil, 1 to 2 feet apart.

**Azure Grandiflora:** Lovely sky blue.

**Bonfire (Clara Bedman):** One of the finest ever introduced. Clear red.

**Splendens:** Brilliant scarlet.

**Zurich (New Dwarf Early):** Finest of all dwarfs. Very floriferous.

**SALPIGLOSSIS (Painted Tongue):** (h A) This flower is by far one of the finest annuals any garden could have. Its richness of color and velvety texture puts it in a class by itself. Plants grow from 24 to 30 inches high, and produce lovely blooms from midsummer until frost. Outstanding for its charm in bouquets.

**Brown and Gold.**

**Rose and Gold.**

**Scarlet and Gold.**

**Crimson and Gold.**

**Violet and Gold.**

**Yellow.**

**Purple and Gold.**

**Collection of any four packets of the above 30c.**

**Finest Mixed:** All colors.

**SCABOISA (Pin Cushion Flower):** (h A) These flowers are very effective for garden decoration as well as lovely floral displays. We offer many fascinating shades of this beautiful free-blooming flower. Sow seeds as soon as soil is warm.

**Azure Fairy.**

**Flesh Color.**

**Peach Blossom.**

**King of the Blacks.**

**Fiery Scarlet.**

**Loveliness—Pink**

**Perennial Scabiosa:** Japonica Lilac.

**Double Mixed.**

**SCHIZANTHUS (Butterfly Flower):** (h A) Beautifully fringed and delicately colored flowers so numerous as to hide the foliage. Exceptionally fine for bedding plants as well as house plants for winter. Sow seed in the open when soil is warm and flowers will follow within a few weeks.

**May Blossom:** Beautiful rose-pink.

**Brilliant Mixed:** Latest of the new varieties of brilliant shades.

## SPECIAL FLOWER COLLECTION No. 2

(Please order by number)

**ASTER.** California Giants, Mixed.

**ZINNIAS.** California Giants, Mixed.

**COSMOS.** Late Flowering Mammoth, Mixed.

**MARIGOLD.** African Tall Double, Mixed.

**ALYSSUM.** Sweet Alyssum.

50c Value—Special 25c.

## SNAPDRAGON

**(Antirrhinum):** (h A) A flower that needs no description! A flower that is loved the world over and is found in every garden of flower growers. One of the showiest border plants of almost every color; splendid for cut flowers. Truly magnificent. Plant in well-protected place. Grow to height of 3 to 4 feet.

**Tall Giant Flowered:**

**Canary Bird:** Bright yellow.

**Copper King:** Bronze.

**Scarlet:** Bright red-orange.

**Golden King:** Bright golden yellow.

**Rose Queen:** Beautiful rose-pink.

**Ruby:** Brilliant red.

**Mixed Varieties:** All true colors.

**Medium Tall Flowered (Florist Strains):**

**Purity:** Pure white.

**Harmony:** Bronzy apricot.

**Nelrose:** Deep rose.

**Philadelphia:** Beautiful pink.

**Defiance:** Orange-scarlet.

**Empress:** Velvety crimson.

**Silver Pink:** Light pink.

**Mixed Varieties.**

**ROCK GARDEN MIXTURE:** (P) Truly an exceptionally fine mixture for all types of rock gardens. Sturdy plants with brilliant shaded colors.

## STOCKS

These popular flowers are easily grown and are so highly fragrant and of such beauty they deserve a place in every garden. For best results, sow in warm place under glass, transplant when seedlings are 2 inches high. (h A).

**Imperial Large Flowering (up in ten weeks):**

**Choice Mixed:** Beautiful shades of reds, blues, etc.

**Giant Perfection (Perpetual or Branching):**

**Princess Alice:** Clear white.

**La France:** Blush pink.

**Brilliant:** Blood red.

**Sapphire:** Beautiful violet.

**Creole:** Canary yellow.

**May Queen:** Pale blue.

**Rose Pink.**

**Choice Mixed:** Complete range of colors.

**Virginian Stocks:** Rose or mixed.

**Evening Scented Stocks:** Very fragrant. Mixed varieties.

ALL FLOWER SEEDS 10c PACKET (except where noted)



EARLY FLOWERING SPENCER  
SWEET PEAS

The New "Spencer" type has lovely waved, fluted flowers of giant size. In exquisite colorings, length of stem and lasting qualities they are superior to older types. Our famous "Diamond Quality" Sweet Peas are selected with critical care and we offer the best productions of the foremost growers.

**CULTURE.** Plant as early in the spring as conditions will permit. Sow at rate of 1 ounce to 15 feet. Make a trench 3 to 4 inches deep, pressing soil down firmly. After plants are well up, thin to 4 or 5 inches apart, draw soil around them until trench is filled above the level. This gives depth to the roots, preserving moisture. Keep ground well worked and water if needed, an occasional thorough soaking being better than a daily sprinkling. Keep flowers cut close. Pruning tips of vines will aid in prolonging the season of bloom and insure better flowers.

Pkt. 10c; ½ oz. 25c; 1 oz. 45c; ¼ lb. \$1.50 postpaid.

**EARLY MARINE.** The clearest true blue of all.  
**EARLY COLUMBIA.** Best pink and white.  
**EARLY GIANT ROSE.** Warm rose pink.  
**EARLY HARMONY.** Beautiful lavender, waved.  
**EARLY ORIENTAL.** Clear deep cream.  
**EARLY SILVER BLUE.** Light shade of lavender.  
**EARLY SNOWSTORM IMPROVED.** Giant pure white.  
**EARLY APOLLO.** Soft salmon cerise.  
**EARLY VULCAN.** Brightest scarlet. Sun-proof.  
**EARLY WHITE HARMONY.** Glistening pure white.  
**EARLY PRIDE.** Deep cerise tinged with scarlet.  
**EARLY SPRINGSONG.** Bright rose pink flushed salmon.  
**EARLY SPENCER MIXED.** A well blended mixture, containing all of the above shades and more.

Pkt. 10c; oz. 25c; ¼ lb. 75c postpaid.

Collection of "Superb Spencer"  
Sweet Peas

- 1. Sybil Henshaw.
  - 2. Avalanche.
  - 3. Olympia.
  - 4. Ascot.
  - 5. Warrior.
  - 6. Austin Frederick Improved.
  - 7. Reflection.
  - 8. Tangerine Improved.
- A 90c Value—Special 50c Postpaid

GENERAL LIST of SWEET PEAS

Our wonderful Diamond Quality Superb Spencers, with giant size, waved and fluted flowers, are so superior to the older types you will have the greatest of pleasure in your sweet pea garden. We have selected the very best in each color to offer you this season.

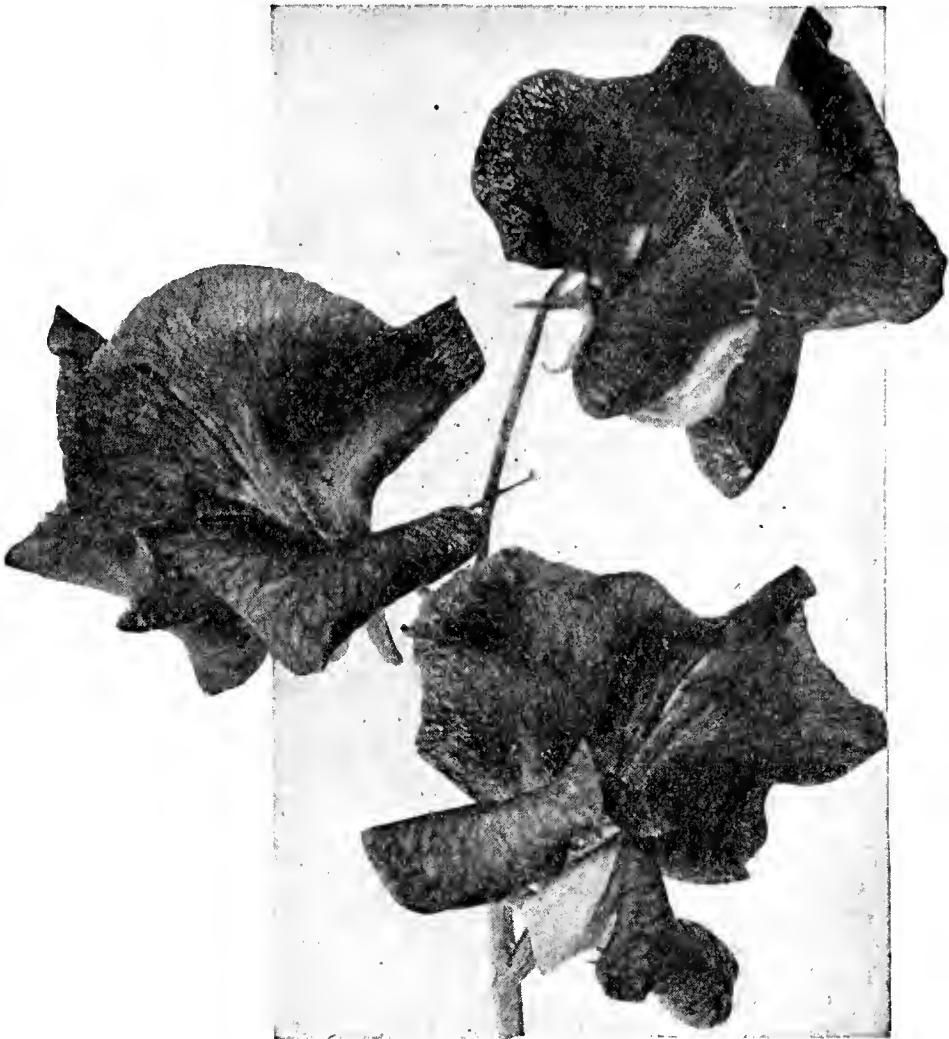
Pkt. 10c; ½ oz. 20c; oz. 35c; ¼ lb. 90c postpaid.

Pink and Cream

**ASCOT.** Clear light rose pink.  
**WHAT JOY.** Large, primrose, shaded to cream.  
**PINKIE.** Large flowers in fours. Deep rose pink.  
**MARY PICKFORD.** Cream pink, faintly tinted salmon.  
**MAGNET.** Rich cream pink.  
**WINNIE MORSE.** Cream ground, lightly flushed rose pink, duplexed, frilled.

Red and Maroon

**WELCOME.** The most dazzling of all scarlets.  
**CHARMING.** Brilliant, rosy cerise.  
**FLAMINGO.** Orange scarlet cerise.  
**SYBIL HENSHAW.** Giant. Deep crimson.  
**DOREEN.** Huge, bright, rose carmine.  
**WARRIOR.** Rich oxblood maroon.



Orange and Salmon

**BARBARA.** Beautiful shade of orange salmon.  
**GOOD CHEER.** Charming begonia rose.  
**GLORIOSA.** Bright, orange scarlet.  
**IDYL.** Giant flowers in fours. Salmon pink. Waved.  
**ROYAL PINK.** Large, pure pink.  
**CELEBRITY.** Brilliant orange.  
**TANGERINE IMPROVED.** Rich salmon orange.

Lavender, Blue and Mauve

**AUSTIN FREDERICK IMPROVED.** Pure lavender.  
**POWERSCOURT.** Clearest lavender.  
**FORTUNE.** Rich, dark blue.  
**GLENEAGLES.** Lavender blue.  
**OLYMPIA.** Giant, rich purple.  
**REFLECTION.** Clear cornflower blue.  
**CHIEFTAIN.** Pure satiny mauve (deep lavender).

White and Picotee

**YOUTH.** Pure white edged soft pink.  
**AVALANCHE.** Giant, pure white.  
**STANDARD SPENCER MIXED.** A splendid mixture, containing many of the varieties in our general list of Spencers.  
Pkt. 10c; oz. 25c; ¼ lb. 75c postpaid.

Collection of Early Flowering  
Spencer Sweet Peas

- 1. Early Spring Song.
- 2. Early Vulcan.
- 3. Early White Harmony.
- 4. Early Pride.
- 5. Early Marine.
- 6. Early Columbia.
- 7. Early Harmony.

7 Packets—Value 70c for 50c Postpaid



**SWEET WILLIAMS (Dianthus Barbatous):** (h P) This attractive plant ornaments the garden between the period of late tulips and spring flowers. The hardy plants form erect tufts and bear handsome broad clusters of blossoms like little Pinks with delicately fringed petals.

**New Port Pink:** Beautiful dark pink.

**Scarlet Beauty:** Brilliant orange-red.

**Dark Crimson:** Deep red.

**White:** Clear true white.

**Double Mixed and Single Mixed.**

**SWEET WIVELSFIELD:** (h A) A cross between Dianthus Allwoodi and Sweet Williams, yet distinct from either. Few plants can compare with this new novelty for wealth of color and prolific blooming qualities. Recommended for garden show rockeries or cut flowers. Offered in mixed colors only.

### Other Varieties of Flower Seed

**Statice (Everlasting):** Latifolia, lavender, rosea superba, true blue, white, yellow and mixed.

**Silene: Pendula Bonetti:** Dwarf dark purple.

**Snow king.**

**Salmon Pink:** Double.

**Saponaria: Ocymoides:** Rose trailing, Vaccaria Rosea.

**Sweet Rocket:** Mixed.

**Sweet Peas (Perennial):** Mixed.

**Sweet Sultan:** Brilliant rose, deep lavender, purple, suavelone yellow, mixed.

**Shasta Daisy.**

**Smilax.**

**THUNBERGIA (Black-Eyed Susan):** (t P) This rapid growing climber is splendid for trailing over trellises, fences, etc. Buff, white and orange. Grows readily from seed sown in the open, to height of 4 to 6 feet.

**Mixed Colors:** Beautiful shades of pink, blue, etc.

**TRITOMA (Red Hot Poker):** (t P) If sown indoors seedling will grow rapidly. Blooms by August 15th. Large brilliant red blossoms on fine clear green foliage.

**VERBENA:** (t P) Just the flower to add charm to bare sunny spots in your border plants. Start seed in the house or under glass early in the spring and transplant after 3 to 4 inches growth. Beautiful blooms from July until early frost.

**Golden Queen:** A beautiful golden yellow.

**Scarlet Defiance:** Striking orange-red.

**Pink Shades:** Blended pink colors.

**Mammoth Mixed:** Large blooms of mixed colors.

**Blue Shades:** Blended blue colors.

**Lemon:** Clear yellow.

**Royal Bouquet:** Mixed varieties of true colors.

**Brilliant Mixed:** Mixed varieties of bright colors.

**WALL FLOWER:** (h h B) A great favorite throughout Europe because of their beauty, charm and grace. Truly a wonderful flower for mild climates and indoor garden boxes.

**Single Varieties:** Blood red.

**Golden Gem.**

**Paris Market (brown).**

**Mixed.**

**Double Early Wonder:** (forcing annual).

**Allioni (Siberian Wall Flower):** Brilliant orange.

### ZINNIAS

These ever popular flowers of such distinct beauty were originally wild native flowers of Central America and Mexico. However, the new improved strains of this magnificent plant are so very much superior to the original blooms that the natives would hardly recognize them. Zinnias are at their very best in hot weather, well-fertilized soil, and a moderate amount of water. (h A).

**CALIFORNIA GIANTS:** Plants of large blooms, sturdy stems, beautiful foliage and constant bloomer. They resemble the "Dahlia-Flowered" variety a great deal.

**Cerise Queen:** Lovely cerise-rose shade.

**Lavender Gem:** Clear deep lavender.

**Rose Queen:** Bright rose tint.

**Salmon Queen:** Salmon-rose tint.

**Violet Queen:** Exquisite deep purple.

**DAHLIA-FLOWERED ZINNIA:** The flowers of this variety often measure 4 inches in depth and 6 inches in diameter. Easily grown from seed sown in the open in April.

**Exquisite:** Light rose, center a deep rose.

**Golden State:** Rich orange-yellow.

**Crimson Monarch:** Largest and finest red.

**Dream:** Deep lavender turning to purple.

**Old Rose:** Next to Exquisite for beauty.

**Scarlet Flame:** Scarlet, blending to orange.

**Oriole:** Immense orange and gold bi-color.

**Meteor:** Rich, glowing deep true red.

**Old Gold:** Deep and lighter shades of golden yellow.

**Purple Prince:** Beautiful deep purple.

**Mixed:** Composed of all above colors.

**Special—Any six packets of the above varieties—50c.**

**LILLIPUT, POM POM or BABY ZINNIAS:** Small double flowers, excellent for borders.

**Salmon Rose.**

**Canary Yellow.**

**Rose Bud.**

**Mixed.**

**Scarlet Gem.**

**Crimson Gem.**

**Golden Gem.**

**ELEGANS PUMILA, Dwarf Double (cut and come again):** Best breeding variety.

**Crimson.**

**Pinkie.**

**Mixed.**

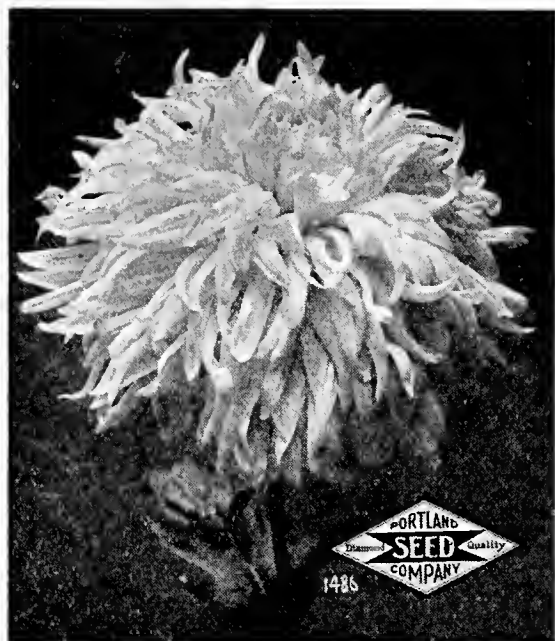
**Golden Orange.**

**Salmon Rose.**

**DOUBLE GIANTS:** A special strain, producing mostly double flowers of immense size. Height about 3 feet. Mixed varieties only.



ZINNIAS



ENGLISH CHRYSANTHEMUM

## ENGLISH CHRYSANTHEMUMS

Each 25c; set of 12 sorts \$2.00 postpaid

- Camille Bernadine.** Large, fluffy flowers of violet and carmine, shaded with white.
- Chaldron.** Bronzy red, tipped with chamois. Dwarf.
- Champagne.** Bright red with golden yellow reverse.
- Cranford White.** Flowers in great profusion. Dwarf.
- Glory of Seven Oaks.** Deep golden yellow. Free blooming. Dwarf habit.
- Goacher's Crimson.** Rich crimson. Very early.
- Henry Vincent.** Rose pink, flushed with silver. Free blooming.
- Le Pactole.** Bright lemon yellow. One of the best.
- Mignon.** Rosy pink, shaded silvery. Vigorous grower. Very free.
- Queen of White.** Snowy white flowers cover the plant early in the fall.
- Source de Or.** Tawny red, flushed with bronze and chamois.
- Red Warrior.** Mahogany red, touched with gold. Very free blooming.

## FINEST JAPANESE CHRYSANTHEMUMS

Each 25c; set of 12 sorts \$2.00 postpaid

- Betsy Ross.** Pure white. Very large, globe shaped. Finely incurved petals.
- Brilliant.** Bright crimson, reflexed form. Very free flowering.
- Chieftain.** Very large. Perfectly incurved flowers. Silvery pink.
- Chrysolora.** The finest yellow in the collection. Large, incurved flowers.
- Crystal Queen.** Pure white, incurved flowers of wonderful substance.
- Early Frost.** Pure snowy white flowers. Inner petals incurving and outer reflexing.
- Golden Glory.** Deep yellow flowers of incurved form. Early and free blooming.
- Oconto.** Large, pure white flowers of fine size and form. Early blooming and strong growing.
- October Rose.** Rose pink with silvery suffusions. Large incurved blooms. Rather dwarf.
- Rose Chocard.** Rose pink. Perfectly incurved flowers of wonderful substance, on stout stems.
- W. H. Waite.** Immense, full flowers of incurved form. Golden bronze, shaded terra cotta.

# LOVELY PLANTS

## HARDY IRIS

20c each postpaid

- Afterglow**—Misty lavender, yellow center.
- Alcazar**—Light, bluish-violet. F. deep purple, bronze, veined at throat.
- Ambassadeir**—Dull, purplish-bronze, deep, velvety maroon. Beards and styles yellow.
- Argynnis**—Late, standards yellow. Falls, velvety, dark violet-carmine paling at border.
- Lent A. Williamson**—Medium. Standards, broad, lavender-violet, blended yellow.
- Prospero**—Late. Standards, bright lavender-blue. Falls red-purple, orange beard.
- Morning Splendor**—Medium. Standards violet. Falls purple, orange beard.
- Dream**—Large rose-pink. Falls darker; bronze beard.
- Gaviota**—White, yellow beard.
- Mrs. Cuthbertson**—Midseason. Standards, soft rose. Falls crimson edged white.
- Tenebrae**—Late. Standards purple. Falls red-purple, orange beard.
- Juniata**—Early. Standard violet-blue, orange beard.
- Hippolyta**—Midseason. Standards, light lavender-blue. Falls, lighter shade, orange beard.

## PEONIES

### White Varieties

- Avalanche**—Large white, base yellow, few petals flecked with carmine. Each \$1.00.
- Baroness Schroeder**—Plume-shaped, fringed petals. Each \$1.00.
- Duchess De Nemours (Calot)**—Tinged sulphur. Mid-season. Each 75c.
- Festiva Maxima**—Large, rose type. Crimson markings in center. Each 75c.

### Red Varieties

- Adolph Rousseau**—Semi-double. Each \$1.50.
- Felix Crousse**—Bomb type. Each \$1.00.
- Karl Rosenfield**—Semi-rose. Each \$1.00.
- Louis Van Houtte**—Semi-rose. Dark crimson. Each \$1.00.

### Single Varieties

- Albiflora**—Large paper-white. Each \$1.00.
- Apple Blossom**—Delicate pink. Each \$2.50.
- Florestine**—Dark red. Each \$2.00.

### New and Rare Varieties

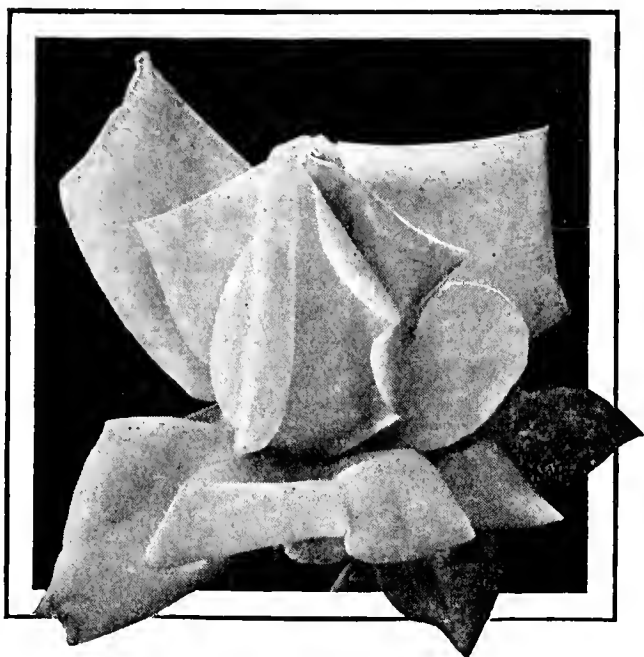
- Mons. Martin Cahuzac**—Dark, purple-garnet, with black reflex, large. Each \$1.50.
- Octavie Demay**—Pink and white. Each \$1.00.
- Reine Hortense**—Hydrangea-pink. Each \$2.50.
- Sarah Bernhardt**—Pink. Each \$2.00.

### Pink Varieties

- Asa Gray**—Each \$1.00.
- Lady Bramwell**—Each 50c.
- Livingstone**—Rose type. Each \$1.00.
- Madame Breon**—A light pink. Each \$1.00.
- Triomphe De Lille**—Each \$1.00.



# "For You a Rose • in Portland Grows"



PINK MAMAN COCHET

**T**HIS year, we are offering the outstanding varieties of new roses as well as the better ones of previous years. Our roses have made Portland world-famous; let them make your garden the best in the community.

35c each; 3 for \$1.00; 12 for \$3.50, postpaid

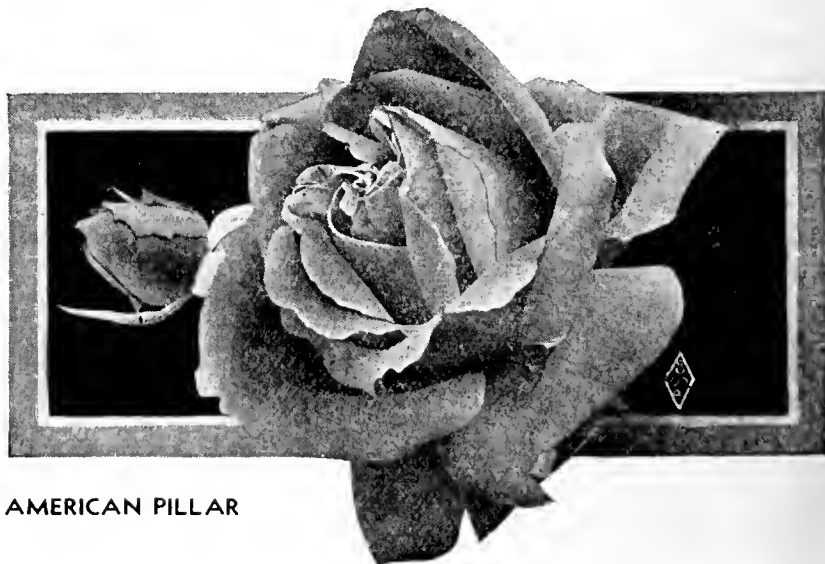
## TEA ROSES

- BETTY UPRICHARD:** Soft salmon-pink on inner surface, glowing orange-carmine on the outside. Tall and erect with long stems.
- BRIARCLIFFE:** Clear rose-pink with high pointed center. Very fragrant.
- CANARY:** A light golden yellow bud, tinted lemon. Bright shiny green foliage. Very fragrant blossoms.
- CHARLES K. DOUGLAS:** A beautifully bright fiery red, quite double.
- CHARLES P. KILHAM:** Large brilliant orange with center of glowing scarlet.
- CUBA:** Long orange-scarlet buds with heavy stems. Blooms continuously.
- DAINTY BESS:** Shell pink petals, very fragrant. Single with long stems.
- DAME EDITH HELEN:** Big double glowing pink. Freely produced on vigorous upright stems. The finest pink rose grown.
- EDEL:** Pure white on outside and ivory at base. Full and double with frosted edges.
- EDITH NELLIE PERKINS:** Large double salmon-pink with pointed center. Inside of petals are salmon-pink, outside copper red and orange.
- E. G. HILL:** Large dazzling scarlet, long stems, fragrant and hardy. Truly a wonderful rose.
- ELDORADO:** Clear yellow with orange-red buds. Fully double, excellent shape.
- ETOILE DE HOLLANDE:** Brilliant red fragrant blooms of magnificent size.
- FRAU KARL DRUSCHKI:** Pure white. A popular rose for many years.
- GOLDEN OPHELIA:** Deep golden yellow flowers of medium size. A sturdy stiff-stemmed grower.
- INDEPENDENCE DAY:** Flaming copper buds and brilliant orange-pink flowers. A profuse bearer.
- INNOCENCE:** Great stiff-petaled flowers, four to six inches across, and long ivory buds. Rich spicy fragrance.
- IRISH FIREFLAME:** A beautiful deep rich orange, splashed with crimson. Single blooms on long stems.
- JOANNA HILL:** Slender daintily colored variety of orange-yellow. Moderately fragrant and exceptionally fine for cutting.
- K. A. VICTORIA:** Pure ivory white. A very free bloomer.
- LORD CHARLEMONT:** Very beautifully formed crimson flowers borne on long stiff stems.

- LULU:** Dainty, extremely long buds of coral apricot, with which bush is covered at all times.
- MABEL MORSE:** An outstanding rich golden yellow. True colors, long stems and sweet fragrance.
- MME. BUTTERFLY:** A very brilliant pink suffused apricot and gold.
- MME. CAROLINE TESTOUT:** Clear pink flowers of the large showy variety.
- MRS. E. P. THOM:** Slender canary yellow. A very free bloomer and of excellent form.
- NEVROUW G. A. VAN ROSSEM:** A very beautiful bronze yellow.
- NORMAN LAMBERT:** Salmon-orange suffused bronze, shading yellow at the base.
- OLD GOLD:** Coppery red, very fine, fragrant and popular.
- PADRE:** Rich coppery scarlet. Semi-double flowers borne on long erect stems. A free bloomer and remarkable color.
- PRESIDENT HOOVER:** The rose beautiful! Combines many shades of cerise-pink, flame, scarlet and yellow. Long beautifully formed buds and rich fragrance. Truly, America's finest rose.
- REV. PAGE ROBERTS:** Soft buff-yellow to a rich salmon. A very free blooming low bush. Rich fruity fragrance.
- SENSATION:** Large double flowers of rich scarlet. A fine fragrance.
- SHOT SILK:** Delicate salmon-rose with shades of cerise and yellow.
- SUNBURST:** A favorite yellow rose with beautiful shadings. Large, well-formed buds.
- TALISMAN:** A mixture of orange and yellow which varies in the different blooms. A popular variety with florists.
- AMERICAN BEAUTY:** A fine old red variety, one of the most popular for many years.

## CLIMBERS

- AMERICAN PILLAR:** Single pink with attractive yellow stamens. Flowers borne in clusters.
- CHAPLIN'S PINK:** One of the newer roses. A very attractive clear pink.
- DOROTHY PERKINS:** A beautiful climber with dark green foliage and clusters of double pink flowers.
- DR. VAN FLEET:** A flesh pink variety with sturdy climbing foliage.
- EMILY GREY:** A beautiful yellow with golden buds.
- GENERAL McARTHUR:** Bright red with flat open blooms, sweetly scented.
- GOLDEN EMBLEM:** Beautiful long buds tinted with crimson, opening to a full yellow. Glossy green foliage and free of mildew.
- HADLEY:** A brilliant rich crimson, very fragrant and borne on long stems. Beautiful foliage and mildew free.
- LOS ANGELES:** One of the finest climbing roses on the American market. Blossoms of gorgeous shrimp pink with deep green foliage.
- MRS. AARON WARD:** A wonderful two-tone rose. Pink with copper shading.
- PAUL'S SCARLET:** The best scarlet climber. It is very popular with landscape gardeners.



AMERICAN PILLAR



### Cactus and Hybrid Cactus Dahlias

- AMBASSADOR, H. C.**—Giant yellow, orange center. 60c.  
**ALPHONSINE**—White incurved flower. 50c.  
**BALLET GIRL**—Immense, orange petals edged white. 50c.  
**BEAR CLAWS**—Large incurving ruby red cactus with good stems. 50c.  
**BOB PLEUSE**—Giant wine maroon, tipped white. 35c.  
**BRITISHER**—Large, crimson incurved petals. 35c.  
**BRONZE KING, H. C.**—Giant, erect blooms. Petals long, irregular. Bronzy-red toned yellow. 50c.  
**CAMPFIRE GLOW (Gill)**—Large blooms, fully double on erect stems. Bright crimson self. 50c.  
**CHEMAR'S MASTERPIECE**—Huge, double orchid-pink. 60c.  
**CIGARETTE**—Creamy-white edged with orange. 50c.  
**ENCHANTING, H. C.**—(Gill)—Giant flowers of rich rosy salmon with large golden centers. \$1.00.  
**ETENDARD DE LYON**—Carmine-rose. 35c.  
**FERNAND OLIVET**—Large free, maroon, darker center. 25c.  
**GOLDEN WEST**—Deep rich yellow overlaid with orange. 35c.  
**JENNIE R. NICHOLS, H. C.**—Extra tall plant; long, erect stems; soft plum with deeper shadings. 50c.  
**LAKE PEND D'ORIELLE, H. C.**—Giant blooms on long, erect stems; delicate soft pink. 50c.  
**LILLIAN SHERIDAN, H. C.**—Orange shaped aurora yellow; petals tipped with gold. Erect stems. 50c.  
**MAUDE HASTINGS**—Very soft yellow, prolific bloomer. 35c.  
**MRS. EDNA SPENCER**—Soft lavender-pink. 35c.  
**MRS. DOUGLAS FLEMING**—Large, white flowers. 35c.  
**ROMANY**—Large bright geranium scarlet. 50c.  
**VELVET**—Velvety maroon, free flowering. 50c.  
**WALTER DEEGAN**—Fiery scarlet, suffused with orange. 25c.

### Collarette Dahlias

- GEANTS DE LYON**—Large deep garnet, crimson golden collar. 35c.  
**MT. LASSEN**—Fiery red with yellow collar; free flowering; long, erect stems. 35c.  
**SONATE**—Light orange-red, yellow collar. 35c.

### Show Dahlias

- ANNA REHORST**—Rich deep purple. 35c.  
**BIG BEN**—One of the largest and best show dahlias. Rich raspberry red. 35c.  
**WHITE LIVONI (Gill)**—Pure white, long erect stems. 25c.  
**GOLDEN OPPORTUNITY**—Giant deep golden yellow. 35c.  
**BLACK DIAMOND**—Very dark maroon, almost black. 35c.  
**W. W. RAWSON**—White overlaid with amethyst blue. 35c.

### Peony Flowered Dahlias

- CITY OF PORTLAND**—Deep yellow. 35c.  
**MRS. JULIUS MEIER (Gill) Giant**—Centers deep yellow with major part of petals rich deep salmon. 50c.  
**OREGON SUNSET**—Golden yellow, suffused brown. 35c.  
**SQUANTO**—Reddish violet. 35c.  
**SUPREME (Gill) Giant**—Clear lavender-pink. 50c.  
**THE ORIOLE**—Combination burnt orange, red, yellow, tipped white. 35c.

### Pompons

- ACE OF DIAMONDS**—Small, bright red flower. 25c.  
**ALEX**—Light cerise, faintly tipped silver. 25c.  
**ALL BRIGHT (Gill)**—Deep gold heavily tipped and toned red. Ideal cut flower. 25c.  
**ATOM**—Small, perfect, orange flowers. Good stems. 25c.  
**AMBER QUEEN**—Rich amber, shaded apricot. 25c.  
**BELLE OF SPRINGFIELD**—Smallest bright brick red. 25c.  
**BOBBY**—Deep plum. 25c.  
**EUREKA**—Rich bronze, shading to yellow. 25c.  
**GIRLIE**—Small, rosy lavender. 25c.  
**GEO. IRELAND**—Dainty mauve. 25c.  
**GLOW**—Light old rose or coral. Beautiful neat flowers on perfect stems. 25c.  
**IDEAL**—Pure canary yellow. 25c.  
**JOE FETTE**—Pure white. Small perfect blooms. 25c.  
**LITTLE JIM**—Deep garnet. Long erect stems. 25c.  
**LITTLE JEWELL**—Decorative, small, peach pink. 25c.  
**RHODA**—Decorative, glowing orange-rose. 25c.  
**SAN TOY**—White, tipped carmine. 25c.  
**VIVID**—Rich, bright scarlet. 25c.

### Decorative Dahlias

- AMUN RA**—Gigantic flowers on long stems; copper and orange with gold and reddish-bronze. 50c.  
**ANDY GUMP**—Bright red, free flowering. 35c.  
**AL KORAN**—Giant goldenrod yellow. 35c.  
**BOB BARKER**—Bright rose pink, with gold base. Long, erect stems. 75c.  
**CLAUDE HARLAND**—Giant double lavender. Free flowering. 35c.  
**CHAMPAGNE**—Large copper to dull gold. 35c.  
**CHAMPOEG**—Waxy canary yellow at the center shading to bright peach red towards the outer edges of the petals. Stems are very stiff. \$2.00.  
**DAD**—Large, brilliant red flowers, with good stems. 75c.  
**EARL WILLIAMS**—Immense scarlet, tipped white. 50c.  
**ELDORADO**—Vivid gold. 35c.  
**FRANK MILLER**—Picric yellow growing to a large size on long, straight stems. \$1.00.



## DECIDUOUS SHRUBS

Deliveries made from November until May.

**ALMOND** (*Prunus*) Pink flowering (*P. Japonica*) Dwarf shrub. Height at maturity 4 feet. Shipping size 18-24 inches. 75c each.

**ALTHEA** (*Rose of Sharon*). Late summer blooming. Colors pink, white or red. Maturity height 10 feet. Shipping size 30-36 inches. Each 75c.

**AZALEA** (*A. Mollis*). In early spring is covered with gorgeous flowers before the leaves appear. Colors mostly orange, yellow and salmon pink. Maturity height 6 feet. Shipping size 12-18 inches. Each \$1.75.

**BUDDLEYA** (*Magnifica: Summer Lilac*). Slender branches that terminate in flowers of lavender blue. Commences to bloom in June and continues until frost. Height 6 feet. Shipping size 24-30 inches. 2-year plants. Each 75c.

**CALYCANTHUS** (*Floridus: Sweet-scented Shrub*). Double, dark crimson flowers, very fragrant and blooms all season. Maturity height 5 feet. Shipping size 15-18 inches. Each 75c.

**CEANOTHUS HYBRIDUS** (*Marie Simon*). Plumy flower sprays light salmon pink. Plant in sunny locations only. Each \$1.25.

**BECHTEL'S FLOWERING CRAB**. Bears masses of double rose-like flowers. Tree shape. Maturity height 10 feet. Shipping size 3 feet. Each \$1.00.

**DEUTZIA**. Especially suited for shady positions. Low growing, slender branches, covered with a profusion of flowers. White with blush of pink in the bud. Shipping size 12-15 inches. Each 75c.

**LEMOINE'S** (*D. Lemoinei*). Flowers in large clusters of pure white. Grows to 6 feet high. Shipping size 24-30 inches. Each 75c.

**FORSYTHIA** (*Golden Bell*). Blooms in dense masses of golden-yellow flowers in early spring. Shipping size 30-36 inches. Each 75c.

**HONEYSUCKLE** (*Bush: Pink Tartarian*). Bushy, upright growth. Flowers freely. Red and orange berries stay on until fall. Maturity height 8 feet. Shipping size 18-24 inches. Each 75c.

**HYDRANGEA** (*Japanese Otaksa*). Blue and white. Maturity height 4 feet. Shipping size 12-18 inches. Each 75c.

**PANICULATA GRANDIFLORA** (*Tree Hydrangea*). Grows to 6 feet high. Pure white afterwards changing to pink. Shipping size 24-30 inches. Each 75c.

**LILAC** (*Syringa Vulgaris*) Common (Not Grafted). Single, white or purple. Maturing height 15 feet. Shipping size 30-36 inches. Each 75c. Grafted, double or single, white or purple. Maturity height 15 feet. Shipping size 2-3 feet. Each \$1.00.

**MOCK ORANGES** (*Syringa*). White, creamy flowers, very fragrant. Maturity height 12 feet. Shipping size 30-36 inches. Each 75c.

**PRUNUS** (*Flowering Prunes*)

*P. Bleriana*. Double pink. Maturity height 20 feet. Shipping size 4-5 feet. Each \$1.00.

**QUINCE** (*Japanese Flowering*). Scarlet flowers before leaves appear. Maturity height 4 feet. Shipping size 18-24 inches. Each 75c.

**SPIREA**. Flowers red in dense spikes. Blooms most of summer. Maturity height 4 feet. Shipping size 24-30 inches. Each 60c.

*Blue Spirea*. Autumn blooming bright blue. Maturity height 4 feet. Shipping size 18-24 inches. Each 60c.

*Crimson Spirea*. Deep red flowers, blooming all summer. Fine for foreground planting. Maturity height 4 feet. Shipping size 24-30 inches. Each 60c.

*Thunbergii*. *Spirea*. Maturity height 4 feet. Shipping size 18-24 inches. Each 60c.

*Van Houetti's Bridal Wreath*. Flowers white in clusters. May. Maturity height 6 feet. Shipping size 24-30 inches. Each 60c.

**SNOWBALL**. Flowers globular, pure white, in May. Maturity height 12 feet. Shipping size 24-30 inches. Ea. 60c.

**WEIGELIA**. Free-flowering shrub. Maturity height 12 feet. Shipping size 24-30 inches. Each 75c.

## DECIDUOUS TREES

Shade and Ornamental

**BIRCH**. White, common, 5-6 feet. Each \$1.25. Cut Leaf (*B. Alba*) Silvery-white bark, slender, drooping branches, 5-6 feet. Each \$1.25.

**CATALPA**. Splendid trees. White flowers, bright foliage. 5-6 feet. Each \$1.25.

*Catalpa Bungei*. Dwarf, dense, round-headed variety. Much in outline like the popular Bay trees, but is hardy and better adapted for the garden. 5-6 feet. Each \$3.

**ELM**. American White, drooping branches, 5-6 feet. Each \$1.25. English. Erect and compact, 5-6 feet. Each \$1.25.

**HAWTHORNE**. Paul's Double Scarlet. 5-6 feet. Each \$1.25. 6-8 feet. Each \$2.00.

**MAPLE**. Norway. 5-6 feet. Each \$1.25.

**MOUNTAIN ASH**. European. White flowers, red berries. 5-6 feet. Each \$1.25.

**LAURUSTINUS**. Dark green foliage. Small, white flowers. Very hardy. Maturity height 10 feet. Shipping size 10-18 inches. Each 60c.

**PRIVIT**. California. Our best plant for hedges. Plant in double row 2 feet apart, 6 inches between plants. Maturity height 10 feet. Shipping size 18-24 inches. 10 plants \$1.00; 100, \$7.50. English. Hardy. Leaves smaller. Maturity height 10 feet. Shipping size 18-24 inches. 10 plants \$1.00; 100, \$7.50. Golden. Variegated. Maturity height 10-12 feet. Shipping size 2 feet. Each 75c.

**PYRACANTHA** (*Crataegus*). Long, narrow, green leaves, small white flowers, followed by berries that stay on all winter. Maturity height 15 feet. Shipping size 12-18 inches. Each \$1.00.

**WEeping WILLOW**. Large, glossy leaves, pendulous habit. 5-6 feet. Each \$1.25.

## EVERGREEN SHRUBS

**ABELIA** (*Grandiflora*). Small, glossy leaves and tubular-shaped flowers of a blush-pink color. Maturity height 5 feet. Shipping size 18-30 inches. Each \$1.00.

**ACUBA** (*Japanese Laurel*). Gold Dust Laurel. Do not expose to extreme hot sun. Maturity height 5 feet. *Japonica Variegated*. Yellow, spotted leaves. *Japonica Green*. Dark, glossy, green leaves. Shipping size 18-24 inches. Each \$1.25.

**AZALEA**. Crimson. Bright, minute, waxy foliage. Loaded in early spring with masses of scarlet flowers. Thrive best in cool, moist situation. Do not plant in full sunlight. Excellent for massing or in front of other shrubs. Maturity height 3 feet. Shipping size 10-12 inches. Each 1.50. Small plants, each 85c.

**BOXWOOD**. Small leaves of dense, compact growth. Globe form 12 to 15-inch spread, 15-18 inches high. Each \$1.50. Small plants, each 50c. For hedges write for prices on quantity desired.

**DAPHNE** (*China and Japan*). *D. Odora Marginata* (Pink Daphne). Blooms early spring. Height 4 feet. Shipping size 18-24 inches. Each \$1.50.

**CAMELIA** (*China and Japan*). Small trees with shining waxy leaves and flowers. Thrive best in partial shade. Height 10 feet. Shipping size 12-18 inches. Each \$2.50. Small plants, each \$1.50.

**COTONEASTER** (*C. Franchetti; China*). Pink flowers, red berries in the fall. Maturity height 6-8 feet. Shipping size 30-36 inches. Each \$1.50. Small plants, each 75c. *C. Horizontalis* (Trailing). Nearly deciduous. Leaves small, turn red in winter. Berries red, stay all winter. Excellent for terrace, hardy. Maturity height 2 feet. Shipping spread 15-18 inches. Each 75c. *C. Simonsii*. Excellent background between shrubs when height is desired. Branches covered with bright red berries. Of quick growth. Maturity height 10-12 feet. Shipping size 18-24 inches. Each 75c.

**LAUREL**. English (*Cerasus*). Growth shrub-like, with broad, dark green leaves. Height 12 feet. 2 feet apart for dense hedge. Shipping size 18-24 inches. Each 75c. Hedge plants, unballied. Height 8-15 inches. Each 15c. *Portugal*. Dark green, glossy leaves, small but very compact. Can be trimmed to globe or pyramid shapes. Maturity height 8 feet. Shipping size 12-15 inches. Each \$1.00.



# «OREGON GROWN GLADIOLUS»



Once again we offer to our patrons, number one, Diamond Quality Gladiolus at unusually low prices. Diamond Quality means the best to be had. In buying these bulbs you are certain of receiving only the best varieties in the larger sizes.

For lovely Gladiolus it is best to prepare your bed carefully before planting. Work Peat Moss and Vigoro into the soil well, then plant the bulbs and keep the soil quite moist. After the plants start growing above the ground, it is advisable to water only after sundown. This prevents the hot sun from absorbing moisture, fragrance and color from these lovely flowers.

**AIDA.** A very early and unusually large dark blue. Extra fine quality. 3 for 20c.

**ALBATROS.** Beautiful pure white blooms, with fine stems. 2 for 20c.

**AVE MARIA.** One of the best dark blues. Brilliant green foliage. 3 for 20c.

**BERTY SNOW.** An excellent lavender bloom of large size. 4 for 15c.

**BETTY NUTHALL.** A new color! Warm light coral with a pale throat. 4 for 15c.

**BILL SOWDEN.** Large dark crimson blooms. One of the best. Each 20c.

**BLUE TRIUMPHATOR.** The largest blue grown. Truly outstanding. Each 50c.

**COMMENDER KOEHL.** A beautiful large, dark scarlet. Very fine. Each 25c.

**CORYPHEE.** A lovely soft rose pink. Many open blossoms. 3 for 20c.

**DON OF PERALTA.** Bright red with prominent straw yellow blotch. Each 10c.

**DR. MOODY.** A splendid early lavender, many open blooms. 4 for 15c.

**EDITH MASON.** Delicate geranium pink. An exquisite color. 2 for 15c.

**EMILE AUBRUN.** Very striking smoky rose and orange blotched. 4 for 15c.

**ETENDARD.** Beautiful cream white with dark red blotch. 4 for 15c.

**FRANK J. McCOY.** An outstanding large rose pink, scarlet blotch. 2 for 25c.

**GLOXINIA.** A very unusual cream and cherry red. Blotched. Each 15c.

**HEAVENLY BLUE.** Lovely analine blue. One of the best light blues. 3 for 15c.

**HELEN WILLS.** Ivory white blooms. Excellent stems. 4 for 20c.

**HINEMOA.** Striking smoky rose with fine yellow blotches. Each 15c.

**JOERG'S WHITE.** One of the largest whites. Pure color. 3 for 15c.

**JONKHEER VAN TETS.** Another lovely pure white. Each 35c.

**LOYALTY.** Truly outstanding. Pure yellow with deeper throat. 5 for 40c.

**MAMMOTH WHITE.** The largest pure white grown. Each 10c.

**MARMORA.** A beautiful large smoky lavender. Many open. 2 for 10c.

**MARY JANE.** Splendid light silvery lavender. 2 for 15c.

**MINUET.** A beautiful clear lavender. A prize winner! 3 for 15c.

**MISS JOY.** Another prize winner. Delicate light pink. 2 for 25c.

**PFITZER'S TRIUMPH.** Exceptionally large salmon pink. 4 for 15c.

**PICARDY.** Outstanding large shrimp pink. Very fine. Each 40c.

**RED GLORY.** Very large velvety red, a spot of purple gold. 3 for 15c.

**RUFFLED GOLD.** It's different! Ruffled golden yellow. 2 for 15c.

**SEÑORITA.** Clear wide open orange, shading to salmon, lower petals bright orange yellow. Carmine tongue and penciling. 2 for 15c.

## GLADIOLUS COLLECTION

**BETTY NUTHALL.** A new color, warm, light coral, with pale throat. A prize winner!

**DOCTOR MOODY.** A fine early lavender, mostly open buds. A prize winner!

**MRS. VON KONYNENBURG.** A beautiful clear light blue, with excellent spike.

**MINUET.** Very clear lavender, with long stems. A prize winner!

**W. H. PHIPPS.** Iridescent pink to rose salmon, many flowers open. The wonder Glad!

**PAUL PFITZER.** Tall dark purple bloom. Long stems.

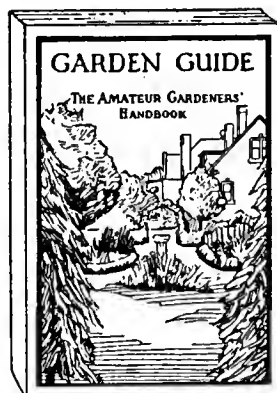
A \$1.25 Value—All for 79c Postpaid

## GARDEN GUIDE

Amateur Gardener's Hand Book

380 pages of the best information available, with planting charts, profusely illustrated, 5x7¼ in., paper covers.

Postpaid \$1.00



## ARTICHOKE SEED

Seed may be planted during March or April in a bed arranged so that the young plants can be given protection until danger of frost is past. When large enough to transplant they should be set 4 feet apart in rows 2 feet apart. Where climate is not severe buds will produce the second year.

**GREEN GLOBE.** Medium height plants. Edible bud scales are broad, thick, deep green. Transplant 2-foot rows 4 feet apart. Pkt. 5c; oz. 75c.

**JERUSALEM WHITE ARTICHOKE.** A fine table variety. Tubers planted and cultivated same as potatoes. An excellent winter hog feed which they harvest themselves. An acre will keep 20 to 30 hogs. Also a valuable cow feed. 10 lbs. \$1.00, postpaid.

## ASPARAGUS

**CULTURE.** Plant roots in well-drained soil about 2 feet apart and about 5 to 6 feet between rows. The seed germinates very slowly and should be planted early in a well prepared seed bed. Asparagus can be produced very easily and cheaply and is a profitable market crop. A bed 15x50 feet, requiring about 100 plants, should give an abundant supply for the average family.

**GIANT WASHINGTON.** The genuine rust resistant strain, stalks long, rich dark green, thick and heavy, of excellent tender quality.

Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

**MARY WASHINGTON.** A special selection of Giant Washington. Somewhat earlier and larger but equally resistant to rust. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

Argenteuil.

Palmetto.

## BEANS

Plant 2½ inches deep about May 1st or as soon as danger of frost is past. Beans should be picked when about two-thirds grown; that's when they are most delicious!

All varieties of beans on this page (except as noted) sell for: Pkt., 4 oz. 10c; ½ lb. 20c; 1 lb. 30c; 10 lbs. \$2.50, postpaid.

### Climbing or Pole

**P. S. CO. OREGON GIANT GREENPOD.** We highly recommend this variety to home gardeners. It keeps producing until killed by frost. Large, fleshy pods, 10 to 12 inches in length, stringless, light greenish yellow splashed with red. A very tasty bean that requires very little care. Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 10 lbs. \$3.25.

**KENTUCKY WONDER.** By far the most popular of all early greenpod beans. Claimed to be the best flavored. The pods are very fleshy, saddle-backed, fine-grained and stringless. They are an early, prolific, vigorous climber so stout poles are recommended. These beans average 8 to 10 inches in length and are light green in color.

**OREGON POLE LIMA.** Proven over many years to be well adapted to our cool Northwest climate. A strong, vigorous grower, bearing continuously until frost. Pods are at their best when turning yellow.

**KENTUCKY WONDER WAX.** A very early bean. Starts bearing when scarcely higher than a bush bean and continues until frost. A popular market gardener variety. Pods are very fleshy, long, crumpled, creamy yellow and practically stringless.

**SCARLET RUNNER.** A favorite ornamental climber. Also very useful for the table, with pods well filled with kidney shaped beans.

**LAZY WIFE.** One of the best later green podded pole beans for snaps or green shell use. The dried beans are pure white and oval shaped. Excellent for winter use.

Chinese Yard Long

White Creaseback.

Caseknife.

Golden Cluster Wax.

Tall or London Horticulture.

### Bush—Green Pod

**STRINGLESS GREENPOD.** This famous greenpod bush bean is unequaled. It is a very early heavy productive bean. The pods are 5 or 6 inches long, round and exceedingly fleshy. They are absolutely stringless and the tastiest of all beans, retaining their full flavor after cooked. We highly recommend this bush bean to all gardeners.

**DWARF HORTICULTURAL or CRANBERRY BEAN.** One of the best dwarf green shelled beans. Excellent either as a snap or green shelled. Pods are 5 to 6 inches long, broad, thick, curved, with splashes of bright red on yellowish background. Beans are large and easily shelled. Excellent for succotash.

**STRINGLESS REFUGEE.** An improved late, heavy cropper. Pods round, 5½ inches long, light green, fleshy, fine grained, delicious and tender. A splendid variety for snap and canning.

**BROAD WINDSOR.** A very hardy variety. Can be planted much earlier than other bush beans. Pods are large, broad and flat. One of the best early varieties.

**TREE BEAN.** Heavy yielder, ripens early, foliage scant. Seed white, rounded form. Most desirable bean for Northwestern growers.

Bountiful.

Little Navy.

Black Valentine.

Michigan Pea.

Canadian Wonder.

Red Valentine.

Lady Washington.

### Bush—Wax Pod

**P. S. CO. STRINGLESS WAX.** The best early dwarf wax podded variety. Pods are golden yellow, entirely stringless. Their growth, size and shape is the same as the stringless greenpod.

**GOLDEN WAX.** An improved strain of the old standby varieties, vigorous and highly productive. Reaches table condition in 50 days. Pods are deep golden, about 5 inches in length, broad, oval, stringless, tender and of fine quality. Cooks quickly as a snap bean. Shells well when green.

**DAVIS WAX.** Hardy and productive. Pods are long, rust resistant and very tender. A popular market garden variety. The dry, white, kidney-shaped beans are excellent for baking.

**PENCIL POD BLACK WAX.** One of the best black seed, round pod varieties. Pods 6½ to 7 inches long, straight, fleshy, light golden, brittle, tender, stringless. Very popular for home and market gardens.

Brittle Wax.

Round Pod Kidney Wax.

Prolific Black Wax.

Wardwell's Kidney Wax.



P. S. CO.'S OREGON GIANT GREENPOD  
ALL VEGETABLE SEED NOW 5c PER PACKET (except where noted)



P. S. CO.'S MARKET GARDENER BEET

## DIAMOND QUALITY BEETS

All varieties of beets sell for: Pkts. 5c; 1 oz. 10c; ¼ lb. 35c; 1 lb. \$1.00, postpaid.

**P. S. CO. MARKET GARDENER.** Extra early and remarkable for its fine quality and rapid growth. Tops small, roots deep red, globe-shaped, flesh dark red, fine grained and tender. It is preferred by market gardeners because it matures evenly, stands long and does not split.

**DETROIT DARK RED.** Due to its uniformity in size and smooth handsome appearance it is very popular with canners as well as home gardeners. Roots are deep red, globe-shaped, with small tap root. This variety is entirely free of white rings and retains its tasty flavor after it grows to full size.

**EARLY BLOOD RED.** An improved variety over the Blood Turnip Beet. Tops large, roots dark red and nearly round; flesh deep red with lighter zoning; sweet, crisp and tender. We recommend these beets for summer and fall use.

**EXTRA EARLY EGYPTIAN.** One of the best for forcing. Tops small, roots dark red, rounded top, flat or bottom, with very small tap root. Flesh sweet and tender.

Crosby Egyptian.  
Early Wonder.

Early Eclipse.

## SUGAR BEETS

Seeds should be planted in early spring in rows 2½ feet apart. Cultivate frequently. When plants are about 3 inches high, begin thinning and continue at intervals until they are 10 inches apart.

**KLEIN WANZLEBEN.** Best variety for sugar. Is also used for stock. A very excellent yielder for Northwest territory.

**WHITE FRENCH or VILMORIN'S IMPROVED SUGAR.** Most generally grown for stock, as it contains a heavy sugar yield.

## MANGEL WURZEL

Plant early in the spring in rows 2½ feet apart. Seeds should be 1 inch apart in the row and covered by 1½ inches of soil firmly pressed down. When plants are 3 inches high, begin to thin until roots are 10 inches apart. One ounce of seed plants 100 feet, and 5 lbs. plants an acre.

All varieties of Mangels (except noted): Pkt. 5c; 1 oz. 10c; ¼ lb. 20c; 1 lb. 50c; 10 lbs. \$4.75, postpaid.

**P. S. CO.'S HEAVIEST CROPPER.** One of the largest yellow mangels, easily pulled as it grows two-thirds above ground. We highly recommend this variety because of its outstanding quality. Small tops permit close planting of this heavy acreage yielder. Pkt. 5c; 1 oz. 10c; ¼ lb. 25c; 1 lb. 60c; 10 lbs. \$5.50, postpaid.

**YELLOW GIANT INTERMEDIATE or GATE POST.** Large roots growing more than half out of the ground. Flesh white, exceptionally sweet and tender.

**NEW HALF SUGAR MANGEL.** Double the yield of sugar beets. Roots large, smooth, cream white and few rootlets. Tops medium sized. Desirable stock food.

**GOLDEN TANKARD.** Especially recommended for dairy cows and sheep. Tops small, roots large, oval, easily harvested. Flesh deep golden yellow.

**DANISH SLUDSTRUP.** Roots long, reddish yellow, growing well above the ground.

Mammoth Long Red.  
Red Eckendorf.

Yellow Eckendorf.

## BROCCOLI

Early varieties should be started in cold frame during January or February and transplanted to open ground as soon as weather and soil conditions permit. In sections where winters are not severe they may be sown and transplanted the fall before.

Late varieties may be sown from middle to late spring, transplanting when 4 to 6 inches high.

Pkts. 5c; 1 oz. 90c; ¼ lb. \$3.00, postpaid.

**ITALIAN GREEN SPROUTING BROCCOLI.** Entirely different from heading sorts. Bears a succession of edible sprouting heads. If kept cut will be replaced by others. Sprouts about 5 inches long, terminate in small heads of deep green buds.

**ST. VALENTINE.** This variety matures in February with large solid white heads. It is exceptionally popular because of its lasting ability.

**EARLY LARGE WHITE FRENCH.** Very hardy with large white compact heads. Truly the outstanding early variety.

## BRUSSELS SPROUTS

Culture is the same as that for late cabbage.

**DWARF IMPROVED.** The very best of the hardy varieties and the only type we will recommend to our patrons. Sprouts large, round and compact, of the best quality. One ounce sows 500 feet. Pkt. 5c; 1 oz. 25c; ¼ lb. 90c, postpaid.

## CHICORY

**WITLOOF.** This variety has become exceeding popular for winter salads. It forms a delicious dish when served like Endive or Cos lettuce with French dressing. The leaves and stems blanch easily. Seed should be sown one inch deep during May or June and spaced about 18 inches apart. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**LARGE ROOTED.** The roots of this plant are very popular as a coffee substitute. The young tender leaves may be used for salad or cooked for greens. Sow quite thinly in shallow drills in the spring. When well started, thin to stand 2 to 3 inches apart in the row. Pkt. 5c; oz. 20c; ¼ lb. 75c.

ALL VEGETABLE SEED NOW 5c PER PACKET (except where noted)





## CABBAGE

Early varieties should be started in cold frames during January and February and transplanted to open ground as soon as weather and soil conditions permit. When winters are not severe they may be sown and transplanted the fall previous.

Late varieties may be sown from middle to late spring, transplanting when 4 to 6 inches high.

Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

**DANISH BALLHEAD.** The best variety of late cabbage. Globe-shaped plants, medium size with short stems. Large heads, 8 to 9 inches across, 6 to 7 inches deep, and weigh 7 to 9 pounds. Keep perfectly in storage until late spring; very firm and solid.

**DANISH ROUNDHEAD.** Ball-shaped head with few outer leaves, very hardy. An excellent keeper and fine for early market.

**EARLY JERSEY WAKEFIELD.** Heads are hard and of fine quality with pointed uniformity. The leaves have small midribs which makes it excellent for cooking. Matures in about 75 days and is a very popular variety with market gardeners.

**GOLDEN ACRE.** An improved strain of Copenhagen Market, producing earlier with smaller but more compact heads. Will stand in field a long time and an outstanding shipper. Few outer leaves.

**CHINESE IMPROVED or PETSAL.** This exceptionally fine vegetable is rapidly growing in public favor. Its growth, which resembles the Cos lettuce, has long heads and crisp leaves. Very mild and pleasant flavor served as a salad or cooked.

**COPENHAGEN MARKET.** A splendid cabbage for the home garden. Early growth with globe-shaped, slightly flattened, large, solid heads. Few outer leaves; keeps and ships well.

Charleston Wakefield.

Disease Resistant Wisconsin Holland.

Late Savoy.

Red Stonehead.

Penn State Ballhead.

Winningstadt.

Wong Bock (Chinese Cabbage).

## SWISS CHARD

**LUCULLUS.** The leaves of this variety make the finest greens of all. Their heavy stalks are well over an inch thick and grows to a height of 2½ inches. The ribs of this truly outstanding vegetable may be prepared like asparagus. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. \$1.75.

## CARROTS

May be sown as early as soil and weather conditions permit or as late as June. May planting will miss many of the spring weeds. Cover ½ to 1 inch deep. Cultivate as soon as the plants are well established and thin to 2 to 4 inches in the row according to the size of the variety.

All varieties of carrots: Pkts. 5c; 1 oz. 10c; ¼ lb. 35c; 1 lb. \$1.00, postpaid.

**P. S. CO.'s NEW CORELESS.** Larger than all other varieties. Crisp, solid, and uniform in size. Truly the outstanding carrot for tasty, crisp vegetable salads during the hot summer months. A genuine stump-rooted type. Holds its color and cooks very quickly.

**DENVER'S HALF LONG.** Grown mainly for its productiveness and adaptability to all classes of soil. A fine quality carrot of uniform size and shape. Sweet, crisp, tasty and tender deep orange flesh. Exceptionally fine for "vegetable stew."

**CHANTENAY (Half Long).** Well adapted for home gardens. Requires little cultivation and care. Ideal for lazy gardeners! Medium size tops, small necks, slightly tapering roots, stump-rooted and smooth. Deep orange flesh.

**IMPROVED LONG ORANGE.** Excellent for deep soil. Grows often 12 inches in length. Good for table use when young. Splendid for stock feed when matured.

**OX HEART.** Especially desirable for a hard, stiff soil. Thick roots that grow from 5 to 6 inches in length. Brilliant orange flesh. Good for table use when young. When matured, excellent for stock.

**EARLY SCARLET HORN.** Best for early outdoor planting. Roots top-shaped, grow 3 inches in length. Bright red-orange flesh.

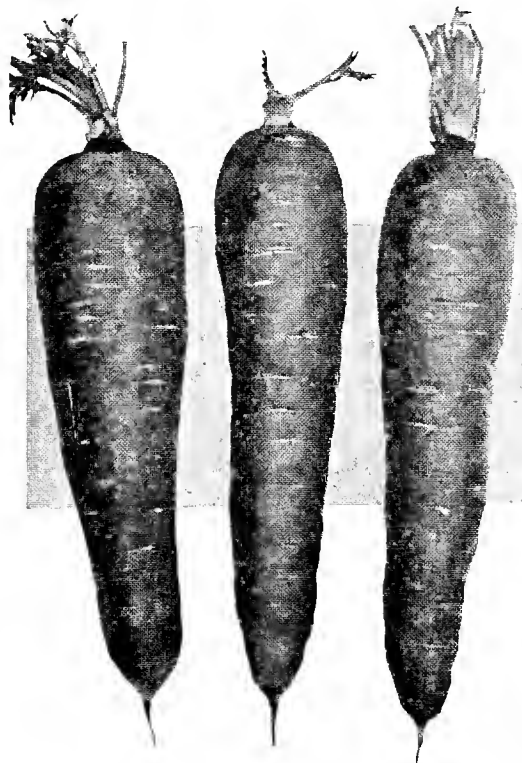
Red Cored Chantenay.

Early Scarlet Horn.

French Forcing.

Imperator.

Oregon Chantenay.



DANVERS HALF LONG

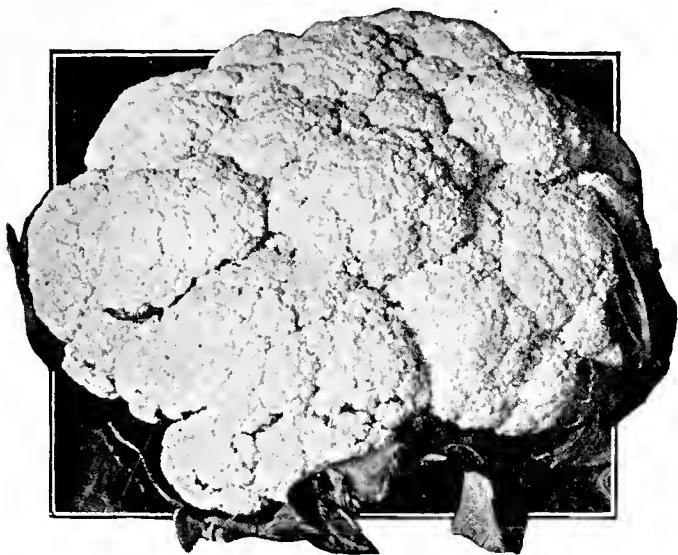
## STOCK CARROTS

**PORTLAND SEED CO.'s YELLOW GIANT.** Especially adapted to wet, heavy soils. Half long roots, broad shoulder, growing half out of the ground. Bright yellow flesh. Producing a heavy crop that is most excellent for dairy cows.

**LARGE WHITE BELGIAN.** One of the oldest and best known stock carrots. Roots 12 inches in length, producing a heavy yield of marvelous quality carrots.

**MASTODON.** Improved short white flesh, with smooth roots. Very heavy at shoulders, tapering. A heavy producing field carrot.

Yellow Belgian.



P. S. CO.'S MOUNT HOOD SNOWBALL

## CAULIFLOWER

Early and late varieties require the same culture as early and late cabbage. As soon as heads are large enough to be exposed to the light, tie or bind the leaves carefully over the heads to keep the light away.

**PORTLAND SEED CO.'S MT. HOOD SNOWBALL.** One of the best early varieties that we give our highest recommendation for early and late planting. Its pure white, fine quality heads of medium uniform size are exceedingly tasty. Popular with home gardeners as well as market gardeners. Pkt. 5c; oz. \$2.00; ¼ lb. \$6.00.

**DANISH GIANT.** Outstanding because of its ability to yield heavily in dry weather. Its large, solid, white heads mature very early if forced indoors during early growth. Pkt. 5c; oz. \$2.00; ¼ lb. \$5.00.

**EARLY SNOWBALL.** Adapted very well to forcing as well as outdoor planting. Plants are compact, producing medium to large, round heads that are pure white when blanched. Pkt. 20c; oz. \$2.00; ¼ lb. \$5.50.

**LARGE ALGIERS.** A very excellent late variety. Plants are large, upright, while large leaves protect the heads from early fall frost. The very best of the late varieties. Pkt. 5c; oz. \$1.25; ¼ lb. \$4.00.

**AUTUMN GIANT.** Another popular late variety with long stems and dark green leaves. Large, compact, white heads of exceedingly tasty quality. Pkt. 5c; oz. \$1.00; ¼ lb. \$3.00.

## CELERY

Sow seed in hot bed or cold frame in early spring. Transplant when 3 inches above ground level. Better plants are produced if plants are transplanted again when about 6 inches high.

**GOLDEN SELF BLANCHING.** Indeed, one of the best early spring varieties for Northwest gardens. The long, crisp stalks mature to a beautiful golden yellow, which are easily blanched to a creamy white. Pkt. 5c; oz. 50c; ¼ lb. \$1.75.

**GIANT PASCAL.** Highly recommended for home gardens because of its keeping qualities and fine, nutty flavor. Plants mature for fall and winter use. The stalks are large, solid, thick, medium height, crisp and stringless. Pkt. 5c; oz. 25c; ¼ lb. 60c.

**GOLDEN PLUME.** Superior quality, vigorous growing. A favorite with home gardeners. Semi-dwarf in habit. Fine flavored stalks that are brittle, stringless and blanch quickly. Pkt. 5c; oz. 75c; ¼ lb. \$2.25.

**WINTER QUEEN.** Matures in the winter and spring. Very compact growth, with large heart. Stalks blanch to cream white. Ribs are solid, crisp and free from strings. Pkt. 5c; oz. 25c; ¼ lb. 60c.

**WHITE PLUME.** The very earliest known variety. Stalks are exceptionally crisp and tender with inner leaves and tasty white heart. Pkt. 5c; oz. 25c; ¼ lb. 60c.

## CELERIAC

The same culture as celery.

**LARGE, SMOOTH PRAGUE.** The latest improved form with very few side roots. This is the largest and best variety of the "Turnip-Rooted Celery." Pkt. 5c; oz. 25c; ¼ lb. 75c.

## CUCUMBERS

The Cucumber is good food during all stages of its growth. Either raw or pickled it is served in salads, and it is a tasty relish by itself. Seed should not be planted until the soil is warm and safe from frost, fairly moist and loose. About ½ inch of soil is all that is necessary to cover the seed. Plant in hills 3 to 5 feet apart, dropping 6 to 8 seeds to each hill. When 6 inches tall thin to 3 per hill.

**DIAMOND LONG GREEN.** Truly the outstanding of the large varieties. It is extremely crisp and tender, sweet, very fine for slicing. It is best for sweet pickles when matured. Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. \$1.00.

**DAVIS PERFECT.** A vigorous grower. Fruits long, dark green, crisp and tender. Holds its color exceedingly well after picking, which makes it a favorite with the market gardeners. Seed cavity is small, making them very desirable for home and market uses. One of the outstanding varieties for Northwest climate. Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. \$1.00.

**DELTUS.** We highly recommend this variety for growing under glass as well as outdoors. Tasty cucumbers from 12 to 14 inches long. Colorful, rich, dark green with very few seeds. Excellent for slicing. Pkt. 5c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.75.

**SHORT GREEN or EARLY FRAME.** One of the earlier varieties and a very hardy grower. Tender, crisp fruit of bright green color. Fine for slicing and pickling because of their straightness. Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. \$1.00.

**LEMON.** A very productive variety. The fruits resemble a lemon in both form and color, having distinctive flavor. Ready for slicing when starting to turn yellow. May be used either green or ripe for pickling. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**BOSTON PICKLING or GREEN PROLIFIC.** Truly the finest and most popular pickling variety. The tasty, bright green fruits range from 4 to 5 inches in length and are exceedingly productive. Fine for home and market. Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. \$1.00.

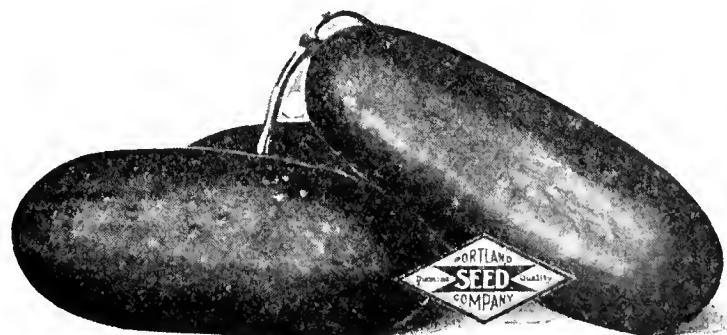
**IMPROVED WHITE SPINE.** An outstanding variety for table use. It is one of the early types and exceedingly tasty. Uniformly straight and handsome light green fruits, with a few white spines. Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. \$1.00.

**JAPANESE CLIMBING.** A useful variety for growing on a trellis or wire. The cucumbers are long, of a dark green color, white flesh, crisp and of good flavor. Pkt. 5c; oz. 15c; ¼ lb. 50c.

**SMALL GHERKIN.** Small, oval, prickly fruited, grown exclusively for pickles. Pale green in color and very uniform in size. They are at their best when about 1½ inches long. Pkt. 5c; oz. 15c; ¼ lb. 50c.

Chicago Pickling.  
Early Cluster.

Snow's Pickling.



BOSTON PICKLING

## CORN

The best condition for growing corn is warm weather, rich soil, and moderate moisture, however, a satisfactory crop can be grown in any garden if the soil is deeply and thoroughly worked before planting. Sweet Corn seed should be planted during the early warm weather season, as cold ground will rot the seed. If the seed is planted in hills they should be spaced from 2½ to 4 feet apart, depending upon height and variety planted. Five or six seeds per hill. When plants are 4 to 5 inches tall, thin from 8 to 12 inches apart and keep well hoed until ears are set.

4-oz. pkt. 10c; ½ lb. 20c; 1 lb. 30c; 10 lbs. \$2.50, postpaid.

### Yellow Variety

**GOLDEN BANTAM.** This variety of corn is second to none for tender, sweet and juicy ears. Although not as early as some of the others, its exceptionally fine quality makes it well worth waiting for. Stalks about 5 feet high. Eight straight rows of rich golden kernels to the cob. Splendid for Pacific Coast gardens.

**GOLDEN WEST.** A very fine early variety. Much the same flavor and tenderness as Golden Bantam and exceedingly popular with market gardeners. Ten to twelve beautiful, tender rows to each ear. Splendid for early gardens.

**EARLY SUNSHINE.** One of the earlier varieties of sweet corn that is of very good quality. It matures 3 or 4 days earlier than the majority of the others. It is also taller and more vigorous, and the ears have 12 rows of sweet tender kernels.

**GOLDEN GIANT.** The largest sweet corn of the yellow variety. The ears are well filled and run from 9 to 10 inches in length. The big kernels are very rich, tender and juicy. Very fine for late harvest.

Golden Evergreen.

Improved Golden Bantam

### White Variety

**EARLY PORTLAND MARKET.** Very popular with the market gardeners because of its uniform, sweet, tender ears. It is early and has pure white kernels. Exceedingly fine for Northwest climate and soil conditions.

**OREGON EVERGREEN.** Earlier than Stowell's and just as fine and sweet. Very popular in Southern California for producing corn through the winter. An exceptionally fine canning variety because of its uniform medium to large ears with 12 to 18 rows of pure white kernels.

**STOWELL'S EVERGREEN.** Remarkable for remaining a long time in a fresh condition, an advantage for home gardeners. Plants 7 to 7½ feet tall. Ears 8 inches long, 2¼ to 2½ inches thick; 14 to 20-rowed kernels of very deep white.

**COUNTRY GENTLEMAN.** An old-time variety with a delicious flavor. A very heavy yielder and valuable for home, market gardener and canning. Kernels are white, shoe-peg form, very deep, sweet and tender.

**BLACK MEXICAN.** An old favorite still in demand because of its quality and sweetness. The kernels are pure white when corn is ready for table use, however, when ready for seed the kernels are bluish or black.

Country Gentleman.

Early Evergreen.

Early Minnesota.

Howling Mob.

Peep o' Day.

White Cory.

### Pop Corn

**PORTLAND SEED CO.'S "BUTTER CRISP".** There is nothing finer on a cold winter evening than a nice warm fireplace and a large tasty bowl of "Butter Crisp" Pop Corn. The kernels of this variety pop out large and fluffy and resembles buttered pop corn because of its creamy color. Pkt. 10c; 1 lb. 30c, postpaid.

**WHITE RICE.** The standard variety for many years. Kernels pop out large and snowy white. Exceedingly well flavored. 4 oz. pkt. 10c; 1 lb. 30c, postpaid.

### Field Corn

1 lb. 15c; 10 lbs. \$1.00, postpaid. Write for 100 lb. prices.

**MINNESOTA "13" YELLOW DENT.** Earliest of all yellow field corn. A rapid vigorous grower that averages 7 feet in height. Makes a very fine fodder or ensilage crop. A very heavy yielder with large and well-filled ears from end to end.

**OREGON GROWN YELLOW DENT.** Adapted for western Oregon and Washington. Matures very early and gives a good grain yield. Excellent for silage. A western corn for western farmers.

**PRIDE OF THE NORTH.** This variety of yellow dent is especially recommended for eastern Oregon, Washington and Idaho plantings. A very heavy yielder and matures early. Truly a fine silo corn.

**NORTHWESTERN DENT.** A red corn with yellow dent or cap. Adapted to high altitudes and short seasons. Quite frost and drouth resistant and very early. Valuable for late planting and fine for silage.

**CHAMPION WHITE PEARL.** This large white dent variety is very popular with dairymen of this section because of the great amount of green feed it produces. We highly recommend this corn to all stock raisers.

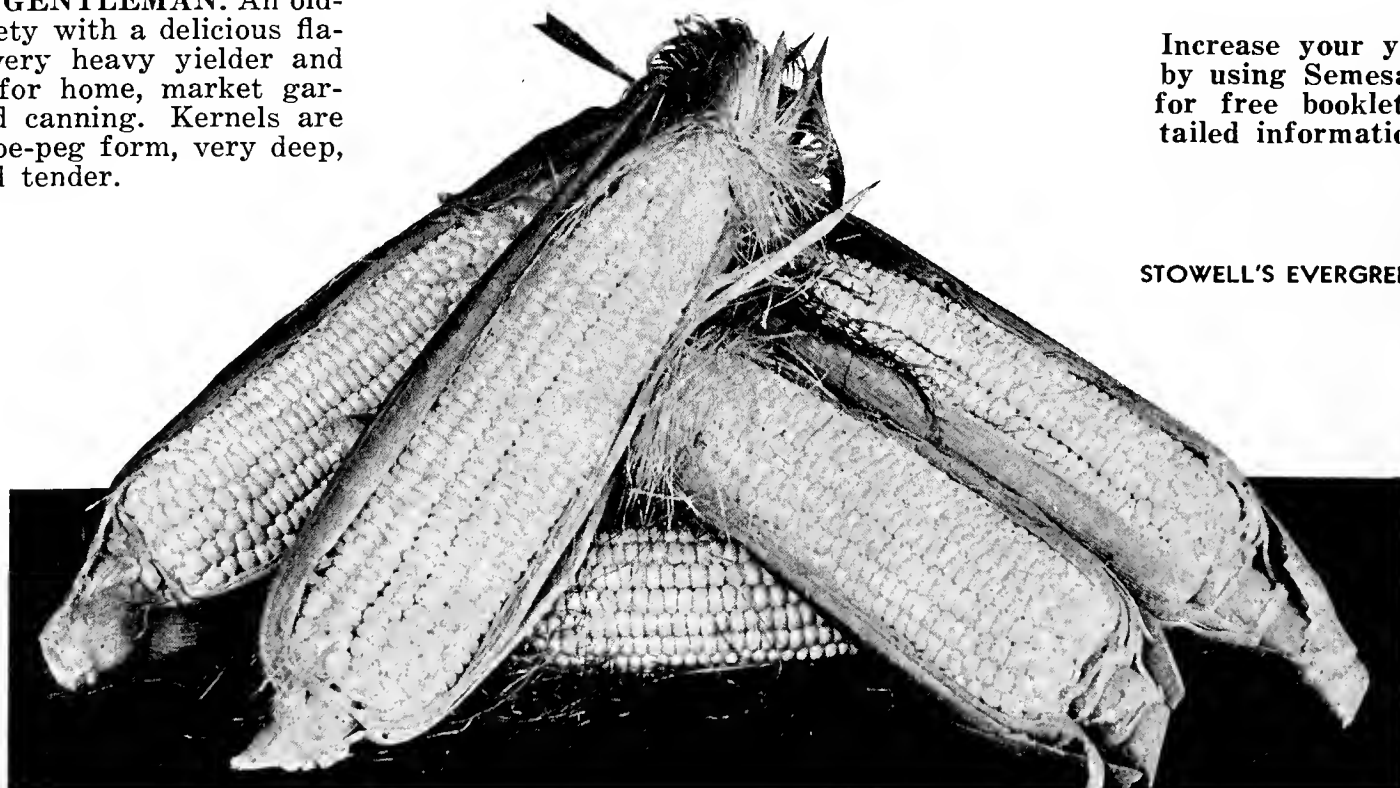
**WHITE FLINT.** Very well adapted to Northwestern conditions and matures very early. It is a very heavy yielder and produces fine green foliage. Second only to Champion White Pearl in importance to dairymen.

**WISCONSIN WHITE DENT.** This variety of white dent is large, handsome and extremely early. It matures perfectly and makes ideal green feed for late summer.

**KING PHILIP.** This is an early Red Flint variety of field corn. Very well known to farmers of nearly every section in the United States. It is well acclimated for these Northwestern states.

Increase your yields of corn by using Semesan Jr. Write for free booklet giving detailed information.

STOWELL'S EVERGREEN





## CORN SALAD

**FETTICUS or LAMB'S LETTUCE.** Used a great deal in winter and spring as a substitute for lettuce, or sometimes cooked like spinach. Sow in drills 1 foot apart in the spring or fall of the year.  
Pkt. 5c; oz. 15c; ¼ lb. 40c.

## CRESS

**TRUE WATER CRESS.** A very distinct variety of cress with tasty, small, oval leaves. Grown easily in shallow ponds or along the edges of shallow streams. Excellent for all kinds of salad. Pkt. 5c; oz. 45c; ¼ lb. \$1.50.  
**CURLED or PEPPER GRASS.** Its leaves have a very pleasant pungency, which gives it the common name "Pepper Grass." The spicy foliage is frilled or curled making it very attractive for salad trimmings. Sow thickly in drills. Pkt. 5c; oz. 15c; ¼ lb. 45c.

## ENDIVE CULTURE

Similar to lettuce. Outer leaves should be tied over the head to bleach. Pkt. 5c; oz. 10c; ¼ lb. 35c postpaid.  
**BROAD LEAVED BATAVIAN (Escarolle).** Has broad, thick leaves which form a large, loose head.  
**WHITE CURLED.** A beautiful variety with curled leaves. For early use.  
**GREEN CURLED.** For fall and winter.

## FENNEL

**FLORENCE FENNEL.** An Italian vegetable with thick leaf stem. Served boiled or sliced, also cooked in soups. Easily grown. Pkt. 10c; oz. 25c postpaid.

## EGG PLANT

Pkt. 5c; oz. 60c; ¼ lb. \$1.75, postpaid.

**BLACK BEAUTY.** Extra early, quick growing, vigorous variety, uniform size. Color deep, blackish purple. Excellent for market.  
**NEW YORK IMPROVED LARGE PURPLE.** Leading market variety. Not quite as early as Black Beauty. Large and productive.

## GARLIC

A profitable crop, when the soil is right. Plant in October. Write for cultural instructions and quantity prices. Lb. 30c postpaid.

## HERB SEEDS—For Planting

**ANISE.** Used as a cordial and for garnishing and flavoring. Seeds have an agreeable aromatic taste.  
Pkt. 10c; oz. 35c.  
**BALM.** Leaves are fragrant and are used as a tea for fevers. Pkt. 10c; oz. 50c postpaid.  
**BASIL (Sweet).** The leaves are used for flavoring soups, stews and highly seasoned dishes. Pkt. 10c; oz. 50c.  
**FENNEL (Sweet).** The boiled leaves are used in sauces. Pkt. 10c; oz. 30c.  
**HOREHOUND.** Leaves used for seasoning. Pkt. 10c; oz. 75c.  
**HYSSOP.** Used as a stimulant and a mild tonic. Pkt. 10c; oz. 75c.  
**BORAGE.** The leaves are used for flavoring and the flowers furnish bee pasture. Pkt. 10c; oz. 50c.  
**CARAWAY.** Grown for the seeds, which are used extensively for flavoring of bread, pastry, etc. Pkt. 10c; oz. 25c.  
**CATNIP or CATMINT.** The leaves are used for seasoning. It also makes an excellent bee pasture. Pkt. 10c; oz. \$1.00.  
**CORIANDER.** The seeds are used in the manufacture of liquors and confectionery. Pkt. 10c; oz. 25c.  
**DILL SEED.** For planting. Pkt. 10c; oz. 20c; ¼ lb. 50c postpaid.

**MARJORAM (Sweet).** The leaves and the ends of the shoots are esteemed for seasoning in summer and are also dried for winter use. Pkt. 10c; oz. 75c.

**ROSEMARY.** The aromatic leaves are used for seasoning. Pkt. 10c; oz. \$1.00.

**RUE.** For medicinal purposes. Pkt. 10c; oz. 50c.

**SAGE.** The most extensively used of all herbs as a seasoning for dressing. Pkt. 10c; oz. 75c.

**SUMMER SAVORY.** A hardy annual. The dried stems, leaves and flowers are extensively used for flavoring, particularly in dressings and soups. Pkt. 10c; oz. 75c.

**THYME.** Used for seasoning. Pkt. 10c; oz. \$1.00.

**WORMWOOD.** Used medicinally and is beneficial for poultry. Pkt. 10c; oz. 50c.

**TRUE LAVENDER.** Used chiefly in the manufacture of perfumery. Pkt. 10c; oz. 75c.

## HERB SEEDS

### For Flavoring and Pickling

**ANISE.** For flavoring. ¼ lb. 15c; lb. 30c postpaid.

**CARAWAY.** For flavoring. Oz. 10c; ¼ lb. 20c postpaid.

**CELERY.** For flavoring. Pkt. 10c; ¼ lb. 15c; 1 lb. 30c postpaid.

**MUSTARD.** For flavoring. Lb. 20c postpaid.

**PARSLEY.** For flavoring. ¼ lb. 10c; 1 lb. 35c postpaid.

**POPPY.** For flavoring. ¼ lb. 10c; 1 lb. 35c postpaid.

### for Early, Crisp Vegetables

feed them this complete,  
balanced diet



## KALE or BORECOLE

This plant is widely grown for greens. Most varieties have heavy, densely curled foliage of tasty greens, and the dwarf variety is desirable for ornamental garden use. The culture is practically the same as that of late cabbage, but as the plants will withstand several degrees of frost they can grow late into the fall. They are more tasty after the first light frost.

**EMERALD ISLE.** Grows to medium height and is exceedingly hardy. Best for greens because of their very fine flavor. Produces new shoots as fast as leaves are used. The leaves are closely curled.

**TALL GREEN CURLED SCOTCH.** This variety grows about 2 feet high and has splendid dark green, curled and wrinkled leaves. It is very hardy and vigorous grower. Improved greatly after first slight frost.

**DWARF GREEN CURLED.** Exceptionally fine for ornamental garden use, also good for greens. The leaves are beautifully curled and a brilliant green.

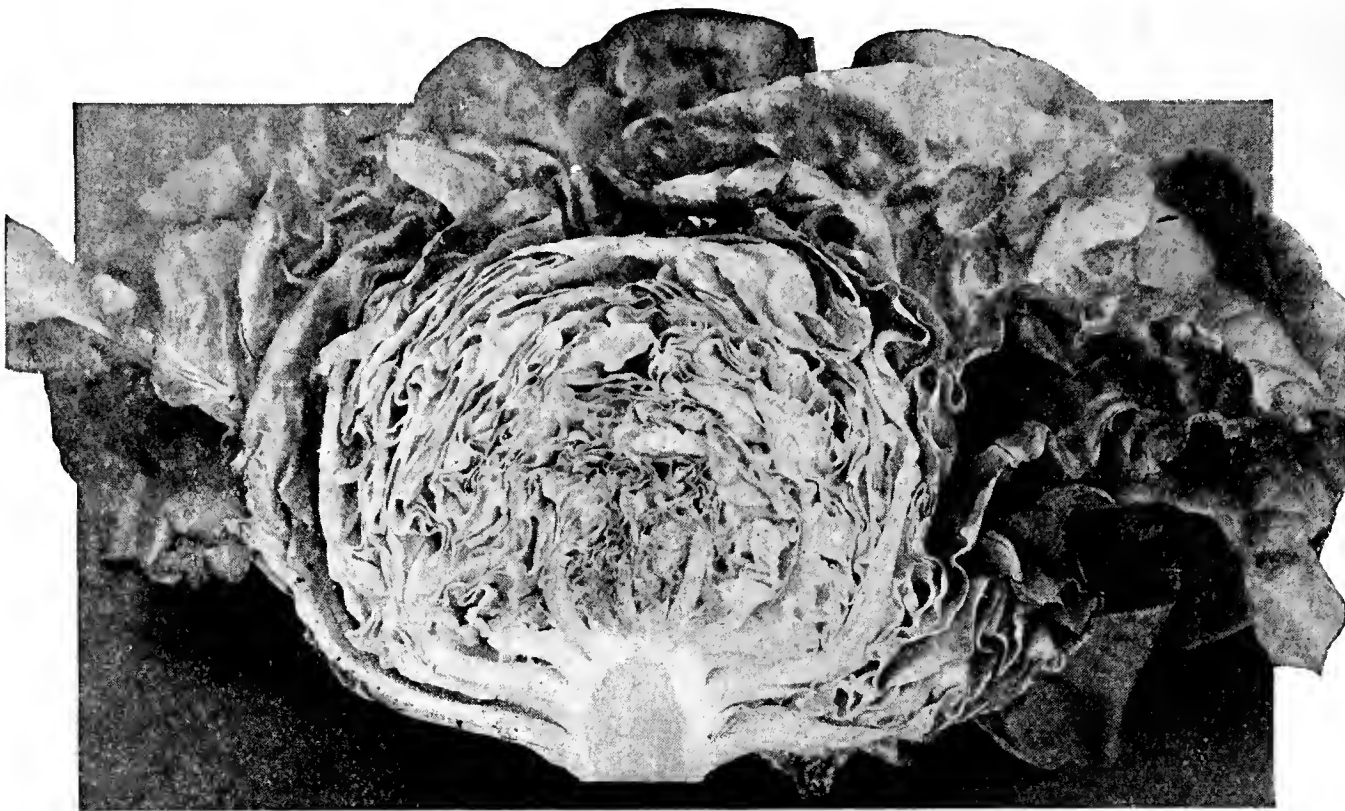
**COW KALE or THOUSAND HEADED.** The most valuable green feed for Pacific Coast dairymen. It is grown the same as stock cabbage.

## KOHL-RABI SEED

A very delicious vegetable when cooked like cabbage. The culture of this vegetable is the same as that of cabbage.

**EARLY WHITE VIENNA.** This is the best table variety and matures very early. If used for table it is the tastiest when the bulbs are 2 inches in diameter. The bulbs are light green with white flesh of excellent quality.

**EARLY PURPLE VIENNA.** Standard early sort. The plants are small, with dark green leaves spotted with purple. The exterior is purple, but flesh is white.



NEW YORK LETTUCE

## LEEK

This species of the onion family is a very favorite substitute for green onions in fall and winter. It is very excellent in soups and stews. Sow early in spring in rows 12 to 15 inches apart, covering  $\frac{1}{2}$ -inch deep. Thin the plants to 6 inches apart in the row and draw the earth about them when cultivating. If you desire very white and tender leeks, transplant when about 6 inches tall, set 4 inches apart in trenches about 2 feet apart and gradually earth them up like celery.

**AMERICAN FLAG.** Used very extensively throughout the entire country. A very strong hardy grower that is very easily cultivated in the home garden. It is broad leaved, with rather short but very thick stems.

**LARGE ROUEN.** A very hardy variety with short, thick, well-blanching stems and dark green leaves.

## LETTUCE

This vegetable contains 95% water and is exceedingly healthy as well as tasty. Hardly a meal is complete without lettuce. No vegetable contains more vitamins than a nice crisp, cool head of lettuce.

It is very easily grown and requires very little care. It may be sown most any time of year that soil conditions permit. It should be covered about  $\frac{1}{2}$ -inch deep and watered frequently. Heading varieties should be spaced about 12 to 14 inches apart, each way.

All varieties 5c per pkt.

### Head Varieties

**PORTLAND SEED CO.'S CRISPETTE.** Heads are large, firm, crisp and tender. Bright green, curly leaves cover the outside. Solidity of the heads is insured by the large, white main ribs of leaves which curve toward the center. Withstands hot weather far better than most varieties, and is exceedingly tasty.

**NEW YORK or WONDERFUL.** The best head lettuce for market gardeners. Its large heads are very solid, tender, crisp and sweet. Beautifully blanching to a creamy white with bright green outer leaves. A very hardy and rapid grower, also, deep rooted.

**BROWN DUTCH.** This variety forms a large, solid head that is sweet, tender and of fine flavor. The outer leaves are tinged with brown. It is a very hardy and vigorous grower.

**HANSON (Improved Hard Heading Stock).** One of the very best. The heads are green on the outside and cream colored on the inside. It withstands the hot sun very well, and stays crisp for quite some time.

### Loose-Leaf Varieties

**GRAND RAPIDS.** This variety is the standard hothouse lettuce for forcing. It also does exceedingly well in the open ground. The leaves are light yellowish green, slightly crimped, crisp and tender.

**SIMPSON'S EARLY CURLED.** Very fine for early planting and forcing. The leaves are finely curled and wrinkled. It is very tasty and crisp and does not wilt readily.

**BLACK SEEDED SIMPSON.** The leaves form a close, compact mass. Yellowish green color and exceedingly curly. Very easily cultivated.

**CHICKEN LETTUCE.** Exceptionally fine for chickens or rabbits. Its leaves do not form into heads. Stalks 3 to 4 feet high, loaded with leaves. The plant offers a great many vitamins to the barn yard animals and may be picked off the stems the same as kale.



## MUSHROOM SPAWN

PURE SPORE WHITE VARIETY  
FOR HOME USE OR  
MARKET

Our free pamphlet gives general instructions

**NEW AMERICAN SPORE CULTURES.** Produced from original spores by a new French process, the only method by which select varieties can be perpetuated and improved. Bricks weight about 20 ounces and will plant 10 square feet. Brick 40c; 5 bricks \$1.75 postpaid.

## MUSTARD SEED

(For Planting)

May be sown anytime in the spring, in rows 18 inches apart. When plants are two weeks above the ground thin out as is necessary.

**SOUTHERN GIANT CURLED.** Very large variety, with fine curled leaves.

**FORDHOOK CURLED.** Dark green, finely curled, leaves of distinctive flavor. Very fine for salads.

ALL VEGETABLE PACKETS 5c

# Diamond Quality MELONS

## WATERMELONS

To grow this tasty fruit it is necessary to allow a great deal of room for spreading vines. If the hills are liberally manured and cultivation is careful and thorough, any home gardener can have these delicious fruits fresh from his own patch. The seed may be planted as soon as the ground is warm and weather conditions permit. The hills should be approximately 6 feet apart each way.

**KLONDIKE.** This delicious variety does best in warm climate but can be grown successfully in cooler sections. The rind is a beautiful dark green and exceptionally thin. The interior of the melon is a distinctive flesh color, very brittle and "honey sweet." The melons grow uniform in shape and size and ship very well.

**SWEETHART.** A very popular variety with both home and market gardeners. The vines are vigorous and productive. Fruits are large, oval, heavy mottled, dark and bright green, rind thin, flesh bright red, firm, sweet and tender. A very fine shipper.

**KLECKLEY'S SWEET or MONTE CRISTO.** Distinctly a home garden melon as the dark bluish-green rind is so crisp that it breaks easily. The long, oval fruits are slightly larger near the blossom end. They weigh from 25 to 30 pounds and ripen in a little over one hundred days. For home gardeners we highly recommend this variety.

**GEORGIA RATTLESNAKE.** An old time southern favorite. It has the most conspicuous striping of the oblong types. The rind is moderately strong and thick. The flesh is very juicy and "honey sweet." A very desirable white-seeded variety, but only useful where summers are long.

**TOM WATSON.** Another southern favorite. A long smooth variety of exceedingly fine quality. The rind is thick and dark green. Deep red interior, crisp and sugary. This variety ships well and can stand much handling and long shipments.

**BLACK-SEEDED ICE CREAM.** The melon is almost round, with a thin rind of medium green. The inside flesh is pink and exceptionally sweet and fine flavored. This variety matures early and is a fine keeper.

## MUSKMELONS

These tasty melons are grown much the same as watermelons. The hills should be from 4 to 6 feet apart each way, and the soil should be well fertilized and watered.

All varieties of muskmelons: Pkt. 5c; 1 oz. 10c; 1/4-lb. 35c; 1 lb. \$1.25, postpaid.

**PORTLAND SEED CO.'S SUGAR ROCK.** An entirely new, sensational muskmelon. We believe this new improved variety will be the most popular melon in America within the next few years. It is very tasty, juicy and sweet. The fruits are oval, large size, without ribbing and netted in the manner characteristic of these melons and from which they take their name. Matures in about 85 days from sowing seed, in ordinary weather conditions. The flesh is deep and thick, a beautiful orange color, with a sugary delicious flavor that is unexcelled.

**HEARTS OF GOLD.** A very fine variety that has been exceptionally popular with both market and home gardeners. The rind is firm and densely netted. Rich, fine-grained, orange colored flesh is excellent in flavor. The seed cavity is small and in all the melon is a very fine shipper.

**ROCKY FORD POLLOCK 10-25.** Very fine for market gardening. The fruits are uniform and heavily netted. The flesh is very sweet and tasty with a salmon-orange tint. Very good shipping and keeping qualities. We highly recommend this variety.

**BURREL GEM.** The fruits are nearly round, heavy netting and thick, fine-grained flesh of reddish-orange. A perfect melon for home and market gardeners. A very fine flavor and a good shipper.

**LARGE YELLOW CANTALOUPE.** Very early and productive. Popular with market gardeners because of its early maturity. Rich, tasty, salmon colored flesh and thin strong rind. A small seed cavity.

**SMALL GREEN NUTMEG.** This is also an early melon that is fine for home and market gardeners. Green flesh that is fine-grained, sweet, rich and tasty. Different than other varieties of muskmelons.

**OSAGE or MILLER'S CREAM.** The fruits are oval and almost smooth. Thick, sweet, salmon colored flesh that is very tasty. An all-purpose melon. Popular in the eastern melon states.

## CASABA MELONS

Pkt. 5c; 1 oz. 15c; 1/4-lb. 40c; 1 lb. \$1.40, postpaid

**GOLDEN BEAUTY.** All that the name implies. A beautiful bright golden yellow, wrinkled skin. The fruits are globular shaped and mature very early. The flesh is white and very thick. Exceedingly tender, rich, juicy and "honey sweet." We offer our customers this variety only, because, after many tests we have found "Golden Beauty" to be the only variety to meet with requirements of "Diamond Quality."



ALL MELONS 5c PER PACKET



**ONIONS****CULTURE**

Plant in February or March if soil and weather permit. Cover about  $\frac{1}{2}$  inch deep. Thin to about 8 plants per foot.

**PORTLAND SEED CO.'S OREGON YELLOW DANVERS.**

Bulbs large, half globe, small neck, thin, brownish skin. Flesh firm, fine grained, white, mild. Ripens up hard and early. A good keeper. Best for coast markets.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$2.00 postpaid.

**WHITE "BUNCHING".** An attractive "green onion".

The young stalks are crisp and mild, attaining a good size before the bulb forms.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.75 postpaid.

**AUSTRIAN BROWN.** Globe-shaped bulbs, clear, amber skin. Ripens early. Good keeper. Used largely for growing sets.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.75 postpaid.

**YELLOW GLOBE DANVERS.** Round or globe-shape variety, thin, yellowish skin, flesh white, fine grained, firm. Good keeper. Ripens early.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.75 postpaid.

**PRIZETAKER.** Fine flavor, enormous size, perfect globe shape, bright, straw-colored skin, neck very small and always ripens up hard.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$2.00 postpaid.

**LARGE RED WEATHERSFIELD.** Large, flat onions, purplish red. Very productive.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$2.00 postpaid.

**WHITE PORTUGAL.** Medium size, flat, pure white. Flesh firm, fine grained. Late ripening. Good keeper. Fine for white sets and pickling onions.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$2.00 postpaid.

**RIVERSIDE SWEET SPANISH.** A large, globe-shaped, brown onion, weighing 1 to 3 pounds. Small tops. Flesh mild and sweet.

Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.75 postpaid.

**BOTTOM ONION SETS.** Small onions grown from seed planted too thick to attain large size. Will produce green onions in short time. Will also produce dry onions earlier than those grown from seed.

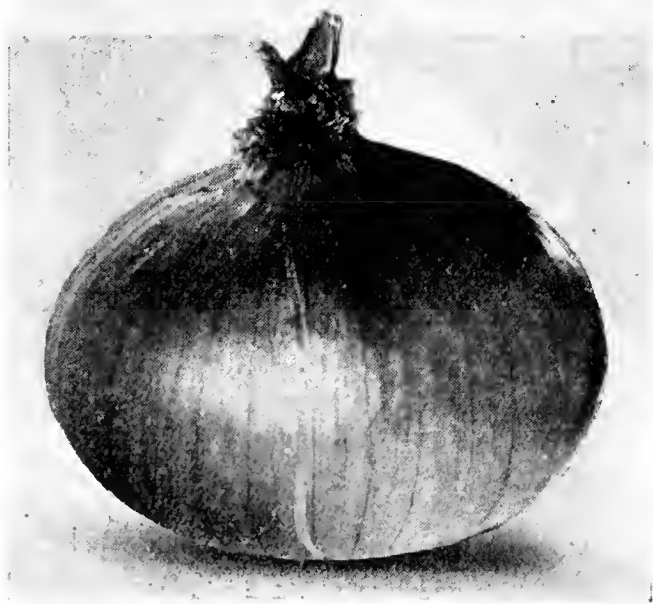
Lb. 25c postpaid. Write for quantity prices.

**CRYSTAL WAX BERMUDA.** Medium size, pure, waxy white. One of mildest sorts grown.

Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.75 postpaid.

**YELLOW BERMUDA.** Same size as Crystal Wax. Yellow straw color. Slightly better for shipping.

Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.75 postpaid.



P. S. CO.'S OREGON YELLOW DANVERS  
"The Perfect Onion"

**OKRA or GUMBO**

Grown for its green pods, which are used in soups, stews, etc., for their rich flavor and substance.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c postpaid.

**IMPROVED DWARF GREEN.** Very early, with long, green, slender pods.**WHITE VELVET.** Large pods, smooth or very slightly ribbed. Remain tender a long time.**PARSLEY**

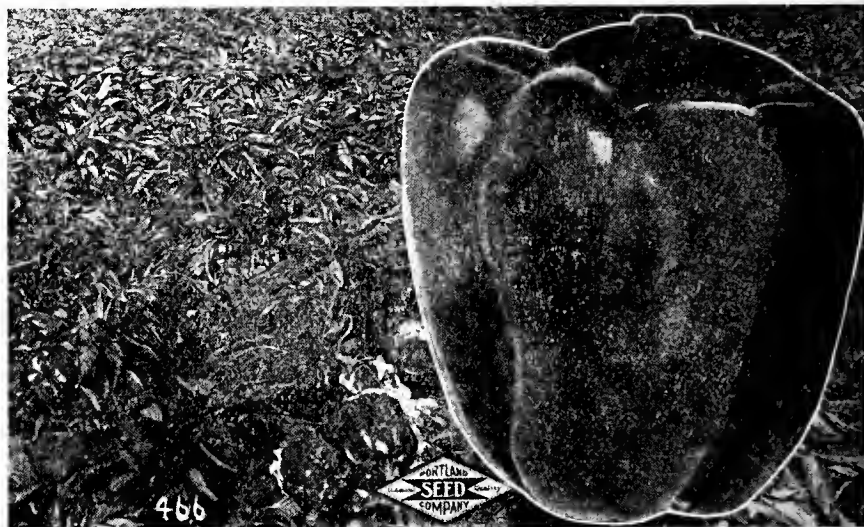
Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c postpaid.

**PLAIN.** Plain leaves, flat, dark green. Used for flavoring and drying.**TURNIP ROOTED or HAMBURG.** Roots used for flavoring soups, stews, etc.**EXTRA DOUBLE CURLED.** Dark green, moss-like leaves, finely curled.**PARSNIPS****CULTURE**

Culture same as for carrots. May planting considered best.

**HOLLOW CROWN or LONG WHITE.** Long, white, smooth, tender, sugary, excellent flavor. Very hardy. Will keep through the winter without protection.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; 1 lb. 80c postpaid.

**PEPPERS**

There is nothing that will add that needed something to flat soups, stews, etc., as some tasty peppers. Also, cold winter evenings and left-over meat makes an excellent combination for "stuffed peppers."

Continuous warm weather for best results. Seed should be started in hot beds as it is slow in germinating. Set plants in ground when about  $2\frac{1}{2}$  inches tall. A moderate dressing of guano, or commercial fertilizer, hoed into the soil after plants are well established, will give better results.

All varieties of Peppers: Pkt. 5c; 1 oz. 60c;  $\frac{1}{4}$  lb. \$1.75, postpaid.

**PERFECTION PIMENTO.** Unequaled for sweetness. Large, flesh smooth, thick, vigorous grower. Yields heavy. Popular garden variety.**LARGE BELL or BULL NOSE.** Large, mild, thick-fleshed variety. Fine for stuffed pickles.**CAYENNE.** Pods long, bright red. Very pungent and used with pickles when green.**CHINESE GIANT.** A favorite with gardeners. Large, thick flesh and mild. Fine for salads, relishes. Ships well.**RUBY KING.** Very large, sweet and mild. Bright scarlet.**CHILI.** Pods small and pointed, brilliant scarlet. Very pungent when ripe.**CALIFORNIA WONDER.** This pepper is placed above others because of the thickness of its flesh alone.  $\frac{3}{8}$  of an inch thick, crisp and juicy, also, a trace of pungency. A vigorous growing plant that bears very heavily. Unusually good for serving whole.



## PEAS

For the best results, peas need a moderate temperature, plenty of sunshine and lots of moisture. Peas may be planted as early in the spring as the condition of the soil will permit. Light frosts do not bother these sturdy vegetables. Seed should be planted in rows at a depth of 1½ to 2 inches. The rows should be 21 to 28 inches apart for dwarf varieties and 28 to 42 inches for the taller varieties.

Varieties growing taller than 2 feet should be staked when about 5 inches tall. The crop should be gathered just as soon as it is fit for table use. If not, new pods will cease to form.

All varieties of Peas: 4 oz. pkt. 10c; ½-lb. 20c; 1 lb. 30c; 10 lbs. \$2.50, postpaid.

## Early Varieties

**EARLY DWARF GRADUS.** This very tender variety is slightly earlier and more dwarf than the regular Gradus. The pods are medium green and rather large. Well-filled with dark green peas of exceptional quality. One of the outstanding early types, being very tasty.

**LAXTONIAN.** A bit earlier than other dwarf large-podded peas, considered by many as the best of their class. The pods are a blue-green color and rather long. The peas are dark green. We highly recommend this variety for home use.

**AMERICAN WONDER.** If weather conditions are right you will harvest your first crop in 60 days. The vines grow quite high and staking is necessary. The plump, blunt-ended, straight pods are medium green, containing tasty, brilliant green peas.

**LITTLE MARVEL.** Dwarf bushy vines that bear exceedingly well and early. The pods are from 2½ to 3 inches long, tightly filled with plump, luscious, deep green peas. A very fine variety for home gardeners because of their sturdy growth and free bearing.

**DWARF TELEPHONE or DAISY.** This variety is a little later than the earlier types. The vines grow only about 2 feet tall and produce fine, well-filled pods. It is an excellent variety to follow the early peas in the home garden.

**ALASKA or EARLIEST OF ALL.** Extremely early. The round, well-filled pods, are first ready in about 55 days. The peas are small, round, and tender. Vines are from 2½ to 3 feet tall, and is best to give them support. Excellent flavor.

**PREMIUM GEM.** A very fine home garden variety. It is ready in 62 days. One of the earliest dwarf varieties with tasty, tender peas. The pods are medium green, 3 inches long, plump, blunt-ended and straight.

## Late Varieties

**GRADUS or PROSPERITY.** Earliness and high quality are combined in this wrinkled pea of medium height. The pods are large well-filled and dark green. The vines grow 2½ to 3 feet high. Excellent quality and flavor. Very popular with market gardeners.

**TALL TELEPHONE.** A standard market variety. Tall, sturdy vines growing from 4 to 5 feet in height and heavily loaded with very large well-formed pods of light yellowish-green color. The peas are very tender and are a delicate light green.

**IMPROVED STRATAGEM.** One of the best large-podded varieties. The peas are large, dark green, and very fine quality. Vines are medium height, stocky and very sturdy. This variety is ready in 75 to 80 days. This type is also known as Potlatch or Prizewinner. Very fine for both market and home gardening.

## POTATOES

### CERTIFIED SEED

All varieties—10 lbs. \$1.00 postpaid. Write for special low prices on quantities.

**EARLY ROSE—Certified.** The best lot of this old standard variety we have ever had. A big yielding early potato and the best baking variety grown. Has rose skin, white flesh, with a Burbank shape.

**EARLY OHIO—Certified.** Vines erect, with rather heavy stems. Easy to cultivate. Somewhat light yielder, but catches the very early markets. Tubers are cylindrical and blocky, skin pink with russet dots. They ship well as new potatoes.

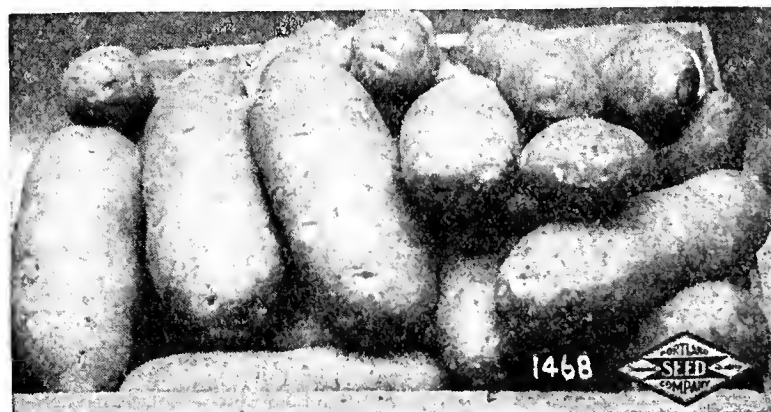
**BURBANKS—Certified.** This is the standard commercial variety. It is a very profitable potato to grow, meeting the popular demand of the Pacific Coast markets. We offer a select, true, heavy yielding strain. When in doubt as to the variety to plant, Burbank will prove your safest choice.

**AMERICAN WONDER—Certified.** Vigorous vine, profuse bloomer, heavy setter. Used by truck gardeners for early crops. The elongated shape meets the Pacific Coast market demands.

**PORTLAND SEED CO.'S EARLIEST OF ALL—Certified.** The tubers are of a flattened, round shape, with few and shallow eyes, white skin; are exceptionally smooth, seldom making a second growth, which always insures a high percentage of marketable tubers. The tubers form close together in the hills, making digging easy. A remarkably good keeper for an early variety. An ideal forcing potato for market gardeners.

**NETTED GEMS (Russet Burbanks)—Certified.** A splendid late potato that is grown extensively in irrigated sections. Tubers are elongated, russet netted skin, flesh white, shallow eyes. Good keepers and produce a fine yield.

**IRISH COBBLER—Certified.** This potato is the leading market variety. Grown extensively on the early truck lands of the East. Sets quickly with marketable size tubers early. Produces a round, blocky tuber.



## PUMPKINS

Pumpkins are grown much the same as melons, but are less sensitive to cold weather. They are best after the first light frosts, usually during the months of October and November. Seed should be planted during the early part of May, in hills 6 to 8 feet apart in all directions. Every garden should have a few hills of this truly American vegetable.

All varieties of Pumpkins: Pkt. 5c; 1 oz. 10c; ¼-lb. 30c; 1 lb. \$1.00, postpaid.

**LARGE YELLOW or CONNECTICUT FIELD.** Large, round. Deep, glossy yellow. Very productive. Good keeper. Grown extensively for stock feeding.

**GIANT OF ALL ("King of Mammoths").** Almost a globe in shape. Skin a rich golden yellow, flesh firm, fine grained and deep yellow, sweet flavored, very thick. Excellent quality.

**WINTER LUXURY.** The best flavored pie pumpkin grown. Excellent keeper. Medium size. Color golden russet, finely netted. Flesh deep golden, sweet, tender and very thick.

**SWEET or SUGAR.** A productive small pumpkin. Skin orange, flesh deep yellow, fine grained. Very sweet. The famous "New England Pie Pumpkin."



EARLY CRIMSON GIANT

## RADISHES

This vegetable is probably the easiest grown, and requires less care than any other common vegetable. The ground should be finely prepared and as free of stones as possible. Plant seed ½-inch deep in rows 12 to 18 inches apart. When up about 1 inch thin 1 to 2 inches apart. A moderate temperature and constant moisture are favorable for best results.

All varieties of Radishes: Pkt. 5c; 1 oz. 10c; ¼-lb. 30c; 1 lb. 85c, postpaid.

**CRIMSON GIANT.** This is the finest radish for both market and home gardeners. It is sweet, tender, crisp and good-sized. Everything one desires in a radish. They do not become full grown until 2 inches in diameter, but are very good while much smaller. They remain in perfect condition for several days, making them excellent for market. We highly recommend this variety.

**FRENCH BREAKFAST or HALF LONG.** Very fine for forcing. Excellent for both home and market gardening. Tops small, roots oblong and blunt. Scarlet with white bottoms; flesh white, crisp and sweet. Splendid quality.

**EARLY SCARLET GLOBE.** Matures very early. A bright carmine-red color. Perfect oval shape and ideal size makes this an excellent radish for market. They reach this size in about 25 or 30 days and are best when not quite full grown. Sweet, crisp and tender flesh of the highest quality.

**EARLY SCARLET TURNIP, White Tipped.** Turnip shaped roots tipped with white. Flesh white, crisp, tender and sweet. Tops small. Matures very early.

**LONG BLACK SPANISH.** A hardy radish adapted for winter use. Roots long, thick, almost black. Flesh white, of firm texture and well flavored.

**WHITE ICICLE.** A popular white radish. Roots long, clear, white, especially mild.

**CHINA ROSE WINTER.** An excellent winter variety. A favorite with market gardeners. Roots bright rose, flesh white, firm, superior quality.

## SPINACH

One of the most healthful vegetables grown. Spinach contains a great deal of iron and vitamins. Sow in rows 16 to 20 inches apart and thin to 6 inches apart in rows when leaves are one inch wide. Spinach should be planted in the early spring, as soon as soil conditions are right. Another vegetable every garden should have. For early spring crop sow in the fall.

All varieties of Spinach: Pkt. 5c; 1 oz. 10c; ¼-lb. 20c; 1 lb. 50c, postpaid.

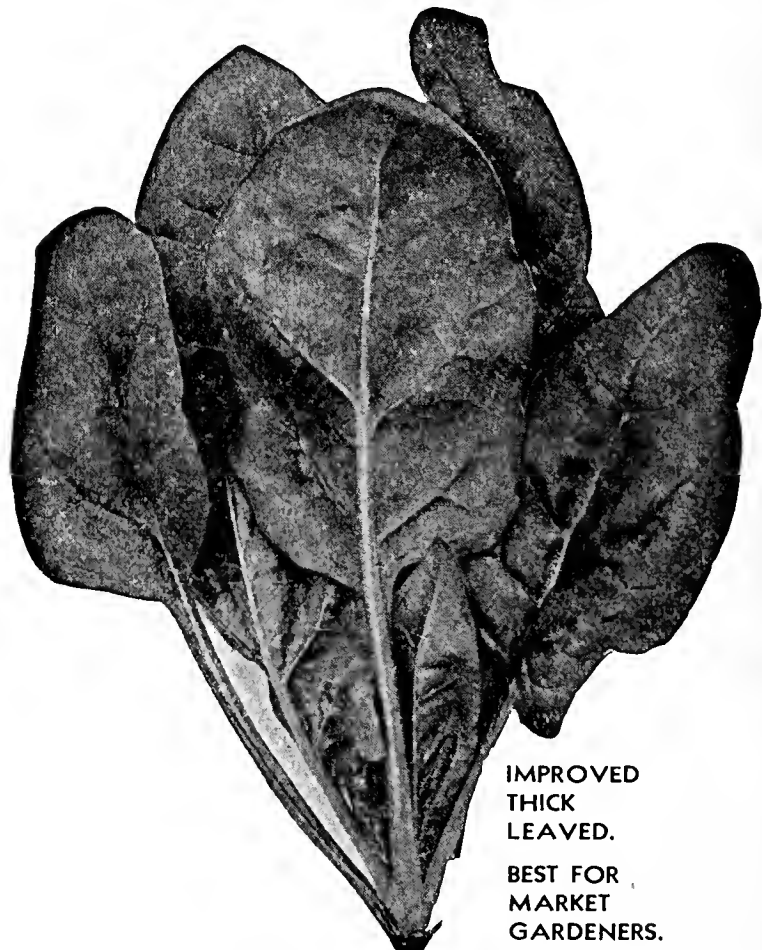
**IMPROVED THICK LEAF.** Believed by many as the finest spinach on the American market today. It is the largest-leaved spinach grown and is exceedingly crisp, tender and tasty. It grows rapidly and remains in good condition a long time, making it fine for market. The medium-green leaves are large, rounded, slightly crumpled, succulent, and tender.

**NEW ZEALAND.** Thrives in hot weather in any soil. Leaves comparatively broad and pointed. Will grow through the summer.

**KING OF DENMARK.** A valuable early variety. Leaves large, medium dark green, remaining in condition one to two weeks. Fine for the home garden.

**PRICKLY WINTER.** Hardest variety. Must be sown in the fall. Seed prickly. Leaves long, pointed, thick and succulent.

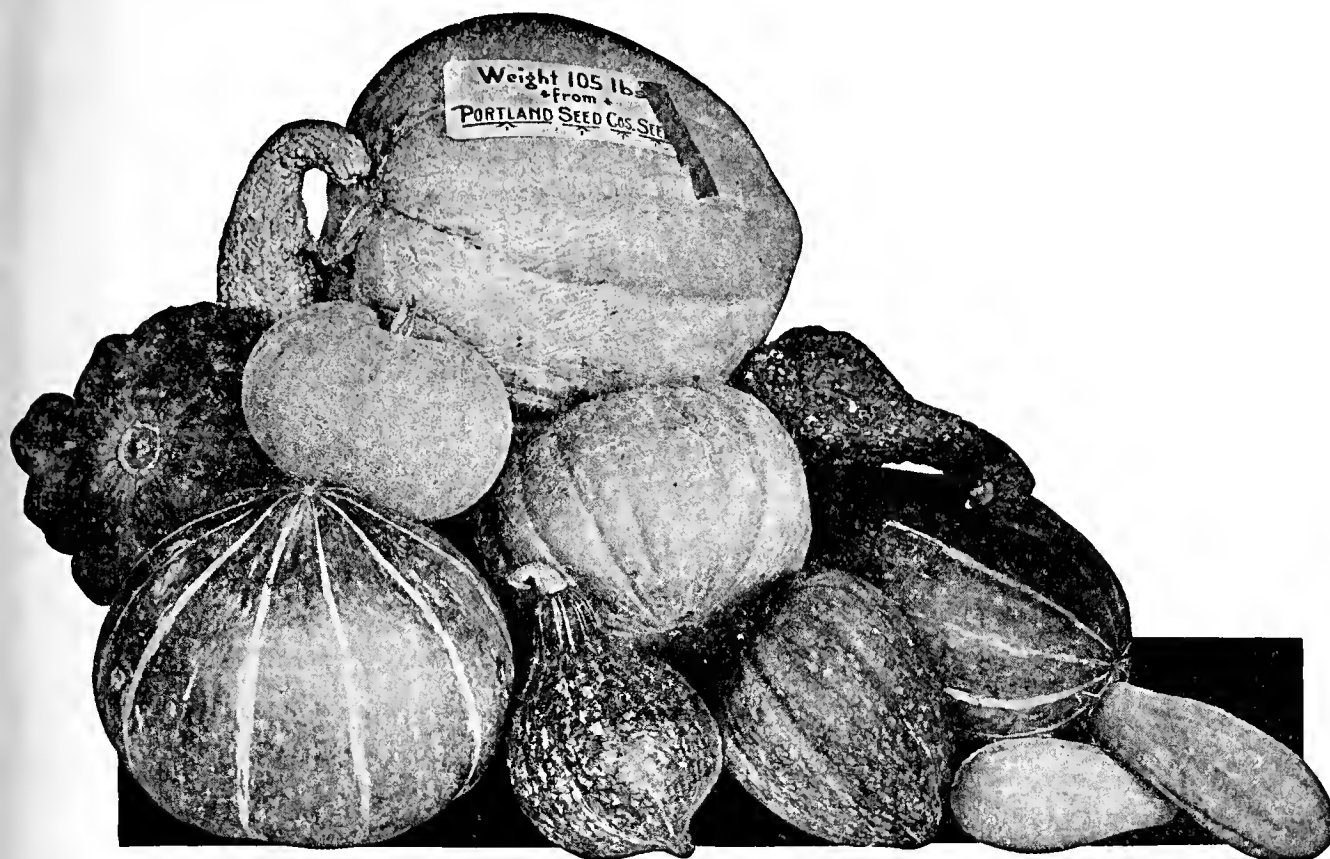
**LONG STANDING.** Large, fleshy, savoyed leaves remain in edible condition over a long period. Slow to go to seed.



IMPROVED  
THICK  
LEAVED.

BEST FOR  
MARKET  
GARDENERS.





## SQUASH

### CULTURE

Squash culture same as for Pumpkins.

All varieties of Winter Squash, except as noted, pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25 postpaid.

### Winter Varieties

**IMPROVED HUBBARD SQUASH.** Large and of warty Hubbard type. Shell dark green, hard, moderately warted. Flesh light orange, very dry and richly flavored. One of the best winter squashes.

**BANANA.** One to two feet long. Flesh firm, orange yellow. Rind smooth, greyish green color. Excellent flavor. Splendid keeping qualities.

**BOSTON MARROW.** Skin yellowish, very thin. Flesh dry and fine grained. Of unsurpassed flavor.

**GOLDEN HUBBARD.** Same in size, shape and quality as the well-known Hubbard squash, except that it is bright red or golden color and somewhat earlier. Good keeper.

**MAMMOTH CHILI.** The largest of all squashes. The rich, fine flavored flesh insures its value for all purposes.

**SIBLEY or PIKE'S PEAK.** Rind smooth, thin, pale green color. Flesh thick, solid, deep orange, dry, delicious flavor.

**TABLE QUEEN.** Small, dark, green, acorn shape. Flesh rich yellow, dry, richly flavored. Medium early. A good keeper. Easy to grow.

**WARTY HUBBARD.** Round, with elongated ends, dark green, hard, deeply warted shell. Flesh bright orange yellow. Thick, dry and rich. Excellent winter squash.

### Summer Varieties

All varieties of Summer Squash (except as noted) pkt 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.15 postpaid.

**COCOZELLE or ITALIAN MARROW.** Skin dark green, becoming marbled with yellow at maturity. Flesh pale green, thick, firm and tender. Best when 5 to 6 inches long.

**EARLY SUMMER CROOKNECK.** Earlier and larger than ordinary crookneck. Skin yellow, thin, hard and warty. Flesh tender and of good quality.

**WHITE BUSH SCALLOP.** Early, medium size, somewhat flattened, creamy white skin. Flesh milk white, firm, richly flavored.

## USE EVERGREEN SPRAY

Sure death to plant insects—  
Harmless to man, birds and  
animals.

A sure killer of most plant insects—and yet offers no poison whatever to human beings, livestock or birds—it is positively not a poison. The active principle is Pyrethrum, or insect flowers, which has this valuable property of being deadly to nearly all insects.

1 oz. 35c; 6 oz. \$1.00; 16 oz. \$2.00, f. o. b. Portland.

## TURNIP

Sow seed early in the spring in rows ½ to 1½ feet apart. This is for a summer crop. Plant seed ½-inch deep and press soil down firmly. In sections infested by flea-beetles it is advisable to dust young seedlings with tobacco dust. When plants are an inch tall thinning should be done the same as for beets. For fall and winter use seed should be sown during August.

All varieties of Turnips: Pkt. 5c; 1 oz. 10c; ¼-lb. 25c; 1 lb. 65c, postpaid.

**EARLY FLAT WHITE DUTCH.** Small, erect tops. Roots flat. Flesh white, firm, tender and sweet. Makes quick growth.

**EARLY WHITE MILAN.** Same as Purple Top only roots are pure white.

**EARLY SNOWBALL.** Matures very early. Roots round, snowy white, crisp, fine flavor.

**GOLDEN BALL.** Medium size, round, yellow. Flesh firm, hard, most excellent flavor. Keeps well. A fine table variety.

**EARLY PURPLE TOP MILAN.** Among the earliest. Small, erect top. Roots purple above, white below. Flesh white and firm.

**PURPLE TOP STRAP LEAF.** An early variety. Roots medium size, flat, purple above the ground, white below. Flesh white, firm but tender. May be used for table or stock feeding.

## MAIN CROP TURNIPS

**POMERANIAN WHITE GLOBE.** Standard variety. Perfect globe shape, skin white, smooth. Has unusual long feeding period before becoming pithy. Yields heavy.

**PURPLE TOP WHITE GLOBE.** Large, globe shape. Purple on top, white below. Excellent quality. Recommended for family garden and field crop.

**YELLOW ABERDEEN.** Medium size, round, light yellow. Very productive, hardy. Flesh firm, tender and sweet. A favorite with dairymen.

**COWHORN.** Large, long, white roots, growing half out of the ground. One of the best stock turnips.

**WHITE EGG.** Smooth, pure white. Grows half out of the ground. Choice for table use. Flavor sweet and mild.

**BORTFIELD.** The easiest harvested root crop. A good keeper; will keep through the average winter in the field. Due to thick skin, is quite resistant to worm injury. A very heavy yielder.

# Diamond Quality Seeds Produce Bountiful Crops



## TOMATO

Sow seed first in flats or hot bed during the months of February or March. The young seedling may be transplanted to the open ground as soon as any danger of frost is past. Tomatoes require rather long warm summers for best results. Diamond Quality Tomato Seed is the finest strain to be found.

All varieties of tomato seed: Pkt. 5c; 1 oz. 35c; ¼-lb. \$1.00; 1 lb. \$3.75, postpaid.

**MARIGLOBE.** Very resistant to disease. Fruits large, globe shape, deep red, finest quality. Excellent for slicing and canning.

**DWARF CHAMPION.** Vine dwarf or tree type. Fruits purplish pink, smooth. Pkt. 5c; oz. 40c; ¼-lb. \$1.40; 1 lb. \$5.00.

**SPARK'S EARLIANA.** One of the earliest scarlet fruited varieties. Medium size, almost seedless and solid. Vine open and spreading. A heavy bearer. Succeeds everywhere.

**BONNY BEST.** Early, hardy, scarlet fruited variety. Medium size, solid, smooth, quite round. Very productive. Quality excellent.

**CHALK'S EARLY JEWEL.** Fruits large, bright red, round, smooth, solid, almost seedless. Recommended for market or home garden.

**BURBANK.** Fruits bright crimson, smooth, firm, with few seeds. Keeps well and a good shipper. Ripens early.

**JOHN BAER.** Brilliant round fruits, high crown, smooth, delicious flavor, easily peeled. Yields heavy. Keeps well and a good shipper.

**STONE.** Popular with canners and gardeners. Scarlet fruited, solid, perfect shape, carrying qualities remarkable.

**GOLDEN QUEEN.** Large, smooth, pure yellow, mild flavor. Pkt. 5c; oz. 50c; ¼-lb. \$1.65; 1 lb. \$6.00.

**YELLOW PAIR.** Small, yellow fruits. Pear shape, solid, very hardy. Fine for preserving. Pkt. 5c; oz. 50c; ¼-lb. \$1.65; 1 lb. \$6.00.

**YELLOW PLUM.** Small plum-shaped, deep yellow skin and flesh. For preserving. Pkt. 5c; oz. 50c; ¼-lb. \$1.65; 1 lb. \$6.00.

**GROUND-CHERRY.** Fruits small, yellow, enclosed in loose paper husks. Very much prized for preserving. Pkt. 5c; oz. 50c; ¼-lb. \$1.65; 1 lb. \$6.00.

**BREAK O' DAY.** Wilt resistant. Vines vigorous open growth and very productive. Fruits scarlet medium to large size true globe shape. Slightly earlier than Mariglobe, an excellent variety for the market and home garden. Pkt. 5c; oz. 40c; ¼-lb. \$1.40; 1 lb. \$5.00.

## PLANTS

**ASPARAGUS**—Giant Washington. Mary Washington. 1 Year, Postpaid. Doz. 25c; 50, 60c; 100, \$1.00; 1,000, \$5.00. 2 Year. Doz. 35c; 50, 90c; 100, \$1.50; 1,000, \$6.50.

**CABBAGE PLANTS**—Name varieties wanted. Transplanted, postpaid Doz. 20c; 100, \$1.00; 1,000, \$7.00. Not transplanted. Doz. 10c; 100, 75c; 1,000, \$5.00.

**CAULIFLOWER**—Name varieties wanted. Transplanted Doz. 25c; 100, \$1.50; 1,000, \$10.00. Not transplanted. Doz. 20c; 100, \$1.25; 1,000, \$8.00. Season April to June.

**CELERY PLANTS**—Name variety wanted. Transplanted, postpaid. Doz. 25c; 100, \$1.25; 1,000, \$10.00.

**HOP ROOTS**—Postpaid. 3 for 25c; doz. 75c; 100, \$3.50.

**HORSERADISH ROOTS.** 3 for 25c; doz. 50c; 100, \$2.00.

**KALE 1000 HEAD.** Transplanted, f. o. b. Portland. Doz. 20c; 100, \$1.25; 1,000, \$7.50. Not transplanted. Doz. 15c; 100, \$1.00; 1,000, \$6.50, f. o. b. Portland.

**LETTUCE.** Transplanted, postpaid. Doz. 20c; 100, \$1.00.

**RHUBARB.** Riverside Giant, postpaid. Each 15c; doz. \$1.25; 100, \$5.00, f. o. b. Portland.

**TOMATOES.** Name varieties wanted. Transplanted, postpaid. Doz. 20c; 100, \$1.00; 1,000, \$8.50.

## SPECIAL VEGETABLE COLLECTION

Special Price, 22 packets, \$1.00, postpaid

1 Pkt. Beans, Burpee Stringless Greenpod.....	\$0.10
1 " Beans, P. S. Co. Stringless Wax .....	.10
1 " Beet, Detroit Dark Red .....	.05
1 " Carrot, Chantenay .....	.05
1 " Corn, Golden Bantam .....	.10
1 " Cucumber, Diamond Long Green .....	.05
1 " Lettuce, P. S. Co. Crispette .....	.05
1 " Lettuce, Grand Rapids .....	.05
1 " Muskmelon, Burrel Gem .....	.05
1 " Onion, Oregon Yellow Danver .....	.05
1 " Parsley, Double Curled .....	.05
1 " Parsnip, Hollow Crown .....	.05
1 " Peas, Laxtonian .....	.10
1 " Peas, Dwarf Telephone .....	.10
1 " Pumpkin, Sweet or Sugar .....	.05
1 " Radish, Scarlet Turnip White Tip.....	.05
1 " Radish, White Icicle .....	.05
1 " Rutabaga, American Purple Top .....	.05
1 " Swiss Chard .....	.05
1 " Tomato, Early Jewel .....	.05
1 " Turnip, Purple Top White Globe .....	.05
1 " Watermelon, Sweetheart .....	.05

Regular Price .....\$1.35

## BERRY PLANTS

The Pacific Northwest is one of the outstanding berry sections of the world. Soil and climatic conditions are ideal for berry raising. Below we offer the leading berry plants at extremely low prices. If you are planting berries for the first time let us help you plan your garden. Write for complete information.

### Youngberry

A real special! These berries are said to be a cross between the Loganberry and the Dewberry. An exceptionally fine flavored, very productive berry. Bears early and commands the highest market prices. The fruit colors well and is exceptionally sweet and large. Color, jet black. Ten plants of this variety will make a row eighty feet long.

Youngberry Tips, each, 5c; 6 for 25c; 10 for 40c, postpaid.

### Strawberries

Diamond Quality Strawberry Plants are large, vigorous, healthy and heavy-rooted. They have large full crowns. Carefully grown and are free from disease and pests. We dig as ordered and pack for shipment in well-ventilated crates. Grown from our select strains and always true to name; no substitution is ever allowed without instructions from the purchaser. All prices, except noted: 25 for 35c; 100 for 95c; 500 for \$4.25; 1000 for \$7.50, postpaid.

**BANNER.** A beautiful dark red. An exceptionally sweet variety and a real heavy bearer.

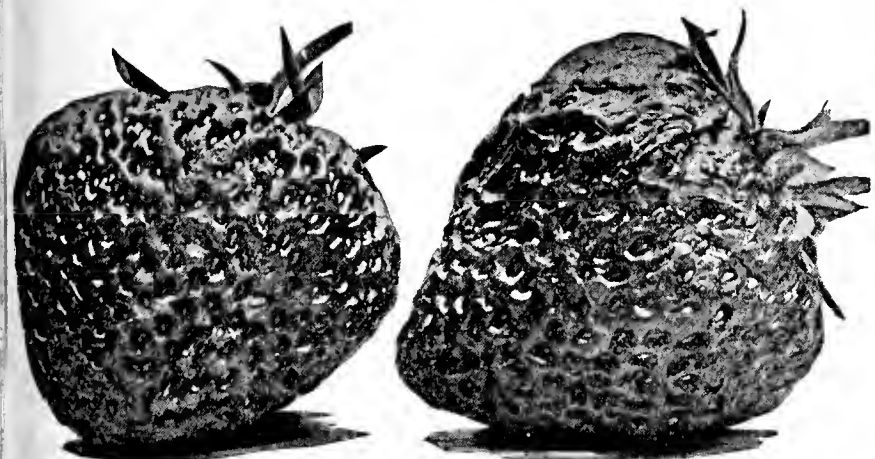
**NEW OREGON.** Most uniform and heaviest yielding main crop strawberry. Large, firm, of fine form, average 15 to the quart box. Brilliant deep rich red, with glossy, varnished appearance. Color extends through to the very center and they are never hollow. Flavor is suggestive of the wild berry. An early bearer, being ready for marketing the first half of May in the Willamette Valley and holds up in size and quality throughout the season.

**MARSHALL.** One of the best all-round strawberries. Very large and fine flavored throughout the entire bearing season. A splendid market and table berry. Our stock of Marshalls is absolutely true and a vigorous and prolific strain.

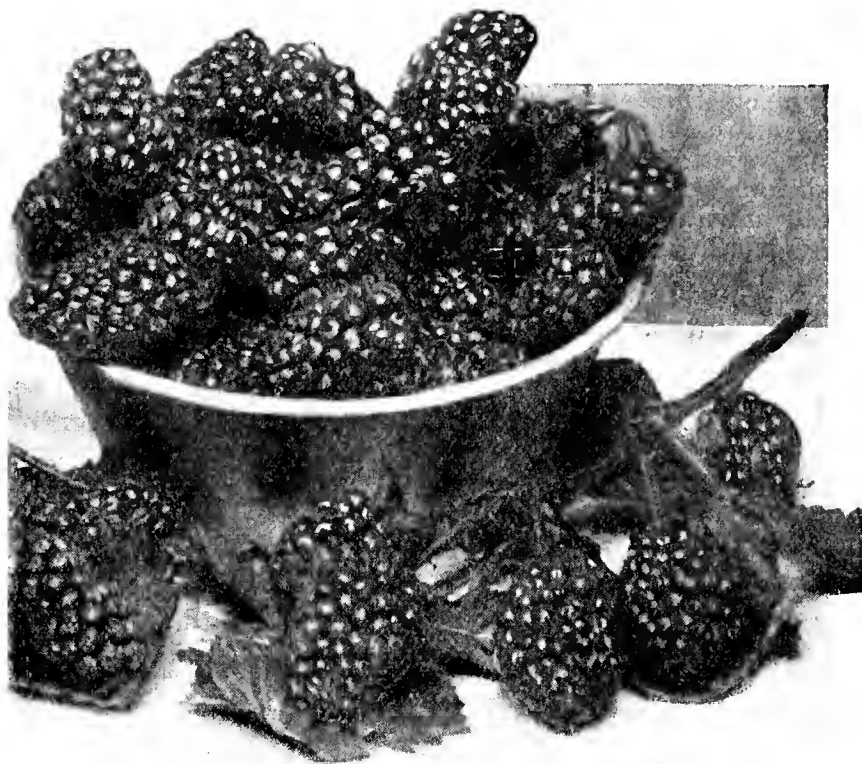
**MAGOON.** A very fine, sweet, juicy strain of strawberry that does exceedingly well in the Northwest.

**NICK OHMER.** Truly outstanding. This berry is not commonly known to most strawberry growers, but we believe it will be a leading seller in the next few years. It's a very hardy grower and a heavy bearer. We highly recommend this variety. 25 for 50c; 100 for \$1.25; 500 for \$5.00; 1000 for \$9.00, postpaid.

**MASTODON EVERBEARING.** The largest everbearing berry grown. Mastodon is the most prolific, the firmest, the most beautiful berry with the real strawberry flavor. Bears early and late and can be picked all spring. Mastodon is the real marvel in strawberries. Nothing like it has ever been known. Every garden patch should have a few of these wonderful plants. 25 for 50c; 100 for \$1.25; 500 for \$5.00; 1000 for \$9.00, postpaid.



MASTODON



YOUNGBERRY

### Raspberries

**LLOYD GEORGE.** A new and truly outstanding variety. Considered by many as the finest berry on the American market. Tips. 100 for \$2.00; 50 for \$1.25; 25 for 75c; Transplants. 100 for \$7.50; 50 for \$4.00; 25 for \$2.25; 12 for \$1.20.

**CHIEF.** Another late variety that is rapidly becoming popular. Especially with market gardeners. Same prices as "Lloyd George."

**BLACK CAPS.** 2-year, each 25c; 10 for \$2.25. 1-year, each 20c; 10 for \$1.75.

**RED CAPS.** 1-year, each 10c; 10 for 75c; 100 for \$3.00. Cuthbert, Marlboro, St. Regis Everbearing Red Caps. Each 20c; 10 for \$1.75; 100 for \$10.00.

### Blackberries

1 Year, each, 15c; 10, \$1.25

Eldorado, sweet and rich. Himalaya Giant (Evergreen). Everbearing, coreless, sweet. Lawton, fruit large, very productive. Thornless Mammoth Blackberry (Cory). Tips, spring delivery only, each 20c; 100, \$10.00. 1 Year, transplanted, each 25c; 100, \$10.00.

### Loganberries

2 Year plants, each 20c; 10, \$1.75; 100, \$15.00

1 Year plants, each 15c; 10, \$1.25; 100, \$10.00

### Gooseberries

Oregon Champion, large, green, sweet, fine. Each 20c; 10, \$1.75.

### CURRENTS

Oregon shipments only

Each 20c; 10, \$1.75

Perfection, largest, most prolific. Bright red, rich flavor, mild, sub-acid. Fays Prolific.

### GRAPES

2 Year plants, each 20c; 10, \$1.75; 100, \$15.00

1 Year plants, each 15c; 10, \$1.25; 100, \$10.00

Campbell's Early, Nearly round, black. Concord, Large, black grape. Bunches compact. Delaware, bright red. Lucile, Niagara, large, roundish, uniform white. Worden, large, black. Improved Concord, late.



FRUIT TREES

In the purchase of fruit stocks great care should be given to the selection of varieties that will meet your conditions and requirements, as many that thrive and bear abundantly in one section often prove disappointing under variable conditions. Also many splendid sorts for home use are totally unsuited for profitable marketing. For this reason we offer a large assortment of improved varieties carefully tested and selected for their special merits and their adaptability to varying conditions, and if you will state whether you intend growing for distant or local market or for home use, giving location and general conditions, we can recommend or assist in the selection of those varieties that will give you the best results. If trees are frozen in transit, do not unpack, but set away in a cool cellar and allow them to thaw gradually. Trees or roses that are dried out and shriveled should be buried, tops and all, in moist earth for a few days. This will restore them.

APPLES

First Grade	Each
2 years .....	\$0.50
1 year, 4-5 feet .....	.35

Autumn and Winter Varieties

- BALDWIN. Large, rounded, deep bright red. Very productive.
- DELICIOUS. Fruit equals name in every respect. Keeps till April.
- GRIMES GOLDEN. Rich golden yellow. Flesh tender and juicy.
- JONATHAN. Long lived and an early bearer. Fine quality.
- NORTHERN SPY. Large, round, greenish yellow. Requires good soil.
- SPITZENBERG. Yellowish, with broken stripes of bright red.
- WEALTHY. Medium, whitish-yellow, shaded with deep red.
- WINTER BANANA. Market fruit. Pale yellow with pink blush.
- YELLOW NEWTOWN. Pippin. Large, firm, juicy and smooth skinned.

Summer Varieties

- EARLY HARVEST. Medium size. Tender and fine for table and cooking.
- GRAVENSTEIN. Large, crisp, juicy fruit. Tree very vigorous.
- RED ASTRACHAN. Large, deep crimson, flesh white.
- YELLOW TRANSPARENT. Flesh tender, juicy, sub-acid. Tasty.

Crabapple Varieties

- FLORENCE. Red striped. Very early, juicy and crisp.
- RED SIBERIAN. Yellow with scarlet cheek. Bears abundantly.
- TRANSCENDENT. Very large and excellent for tasty cider.

CHERRIES

First Grade	Each
2 years, 4 to 6 feet.....	\$0.75
1 year, 4 to 6 feet.....	.60
1 year, 3 to 4 feet.....	.40

- BING. Large, dark brown or black. Very fine, tasty and sweet.
- BLACK REPUBLICAN (Lewelling). Large, black and sweet.
- LAMBERT. Largest size. Deep, rich red. Fine firm flesh.
- ROYAL ANN. A magnificent cherry of the largest size.
- WATERHOUSE (Long Stem). Small tasty fruit, light red.

Pie Cherries

- EARLY MORELLO. Nearly black. Medium to large sizes.
- LARGE MONTMORENCY. The most popular sour cherry grown.
- LATE DUKE. Large, light red. Excellent taste, sub-acid.
- MAY DUKE. Large, rich, dark red, sub-acid. May bearer.

APRICOTS

First Grade	Each
1 year, 4 to 6 feet.....	\$0.50
1 year, 3 to 4 feet.....	.35

- MOOREPARK. Excellent for canning and drying. Freestone.
- ROYAL. Sweet, rich, juicy. Good dryer and canner.
- THE LEWIS. Best flavored. Very hardy with juicy fruit.
- TILTON. Large. Rich color, high flavor. Very productive.

PEACHES

First Grade	Each
4 to 6 feet .....	\$0.70

- EARLY ALEXANDER. One of the largest early varieties. Sweet.
- EARLY CRAWFORD. Large, yellow, red cheek. Freestone.
- ELBERTA. Large, bright yellow, red cheek. Juicy, sweet.
- EARLY ELBERTA. Same as above except larger fruit and earlier bearing.
- HALE'S EARLY. Extra fine quality. Freestone.
- J. H. HALE. Ripens a few days earlier than Elberta.
- LATE CRAWFORD. Large, yellow, dark red, juicy. Freestone.
- MAYFLOWER. Red freestone and extremely early.

PRUNES

First Grade	Each
2 years, 4 to 6 feet.....	\$0.50
1 year, 6 to 8 feet.....	.35
1 year, 4 to 6 feet.....	.25

- HUNGARIAN. Very large, dark red, juicy and sweet.
- ITALIAN (Fellenberg). Dark purple, flesh greenish-yellow.
- NEW STANDARD. Trees large. Enormous yield. Freestone.
- PACIFIC. Large, sweet. Same color as Italian. Good canner.
- PETITE (French). Medium, egg-shaped. Violet purple. Sugary.

QUINCE

First Grade	Each
2 years .....	\$0.60

- PINEAPPLE. Flavor is suggestive of pineapple. Resembles the orange quince, making superior jelly. Can be eaten raw and has a most exquisite and delicious flavor. September.

PEARS

First Grade	Each
2 years, 4 to 6 feet.....	\$0.75
1 year, 4 to 6 feet.....	.60
1 year, 3 to 4 feet.....	.50

Autumn Varieties

- BARTLETT. Large. Skin thin, clear, lemon-yellow, soft blush.
- BEURRE BOSCH. Large, beautiful, russety. Highly flavored.
- COMICE. A splendid commercial variety. Ships well.
- FALL BUTTER. Yellow, sweet and juicy. September.

Winter Varieties

- P. BARRY. Fine keeper. Large, yellow. December to March.
- WINTER BARTLETT. Undoubtedly one of the few pears of recent introduction of real merit.
- WINTER NELLIS. Medium. Skin yellowish-green. Flesh yellowish-white. Fine grained. December.



PLUMS

First Grade	Each
2 year, 4 to 6 feet.....	\$0.60
1 year, 6 to 8 feet.....	.65
1 year, 4 to 6 feet.....	.55

- BRADSHAW.** Reddish-purple. Adheres partially to stone.
- COE'S GOLDEN DROP.** Large, light yellow. Late September.
- DAMSON.** Small, bluish-purple. Rather tart. Trees fruitful.
- DAMSON SHROPSHIRE.** Dark purple. Very firm. Flesh green.
- MAYNARD.** Dull red, rich and sweet. Sturdy, quick growing.
- BLOOD PLUM.** Large, dark red from skin to pit. Bears well.
- WASHINGTON.** Large, skin dull yellow, crimson blush. Sweet.
- YELLOW EGG.** Very large. Deep golden, rather acid.

NUT TREES

Write for quantity prices.

Almond

(Nut bearing.) Almonds can be grown successfully in many sections of Oregon and Washington. We can supply most of the leading varieties at price listed. Special prices on large orders. 3 to 5 feet. Nonpareil. Nut sweet, shell thin. Each 75c.

Butternut

A beautifully formed tree bearing a rough-coated nut of most attractive flavor. Well known to the Middle West. Succeeds fairly well in the Pacific states. Each \$1.25.

Filberts

3 to 4 feet.

- BARCELONA.** Magnificently large nut from Spain. First quality. Can be grown as low standard tree or bush. Each 75c.
- DU CHILLY.** The largest filbert on the Pacific Coast. Nuts are broad, full-fleshed and sweet. Du Chilly is a good pollenizer for Barcelona. Each 75c.
- WHITE AVELINE.** This, used with the Du Chilly, considered best varieties for planting with Barcelona for pollenizer. Each 75c.

Grafted Walnuts

(Soft Shelled.) We offer a splendid strain grafted on 4-year California Black Walnuts. Sturdy, thrifty trees with big, fibrous roots. The best to plant. Comes to bearing much younger than seedling walnuts. Can be shipped by express or truck. 3 to 4 feet, each \$1.00; 4 to 5 feet, each \$1.50; 5 to 6 feet, each \$2.00; large trees, 1 3/4-inch diameter, each \$2.50.

Seedling Walnuts

Second generation. Soft shell, selected stock. Trees hardy and prolific bearers. Nuts are rich and meaty. Each \$1.25.

Hickory

Popular Eastern variety. Tree hardy, but slow grower. Nuts medium size, very good. Quality excellent. 3 to 4 feet, each \$2.50.

VIGORO  
Complete plant food

For Beautiful Lawns and Gardens

USE Diamond Quality seed, bulbs, and plants, and feed them regularly with Vigoro, the complete plant food. Vigoro contains the right amount of each food element necessary to produce rich green, velvety lawns; large, colorful flowers; healthy, full-foliaged shrubs and trees; and early, delicious vegetables.

Clean, odorless, economical. Vigoro is easy to use. Just follow the simple directions in each bag or package. We recommend that you get enough for everything you grow.

12-oz. pkg. 10c.	Prices
5-lb. pkg. 50c.	f. o. b.
10-lb. pkg. 85c.	Portland

Write for prices of 25, 50 and 100-pound bags.



RED STEER

FERTILIZER

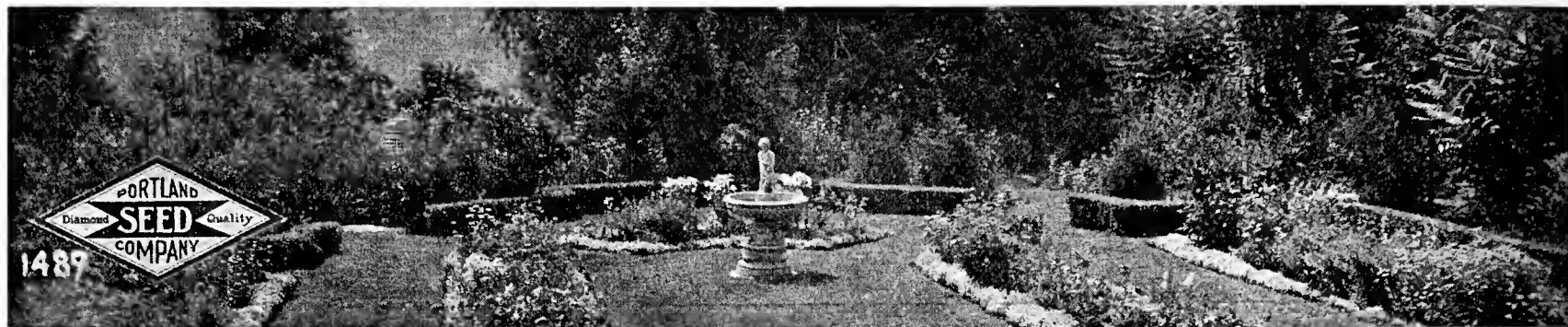
Red Steer Fertilizers have been the standard for many years, and have consistently proven their value in producing profitable yields. America's most popular fertilizer for large scale production.

Prices f. o. b. Portland and subject to market change without notice.

- 2/14/4. For corn and other cereals. 100 lbs. \$2.00.
- 3/10/7. Especially for head lettuce. 100 lbs. \$2.05.
- 4/7/6. For celery, berries, potatoes, and upland soil. 100 lbs. \$2.00.
- 3/10/10. The best all-purpose fertilizer. 100 lbs. \$2.10.
- STEAM BONE MEAL. 2/14/0. Organic nitrogen and phosphorus. 100 lbs. \$2.25.
- RAW BONE MEAL. 4/15/0. A quick stimulant. 100 lbs. \$2.20.
- TANKAGE. 4/8/0. Ground meat and bone scraps. 100 lbs. \$2.35.
- BLOOD MEAL. Contains 13% nitrogen. 100 lbs. \$2.70.
- SUPERPHOSPHATE. Quick acting fertilizer. 100 lbs. \$1.60.
- NITRATE OF SODA. Good stimulant for early crops. 100 lbs. \$2.50.
- SULPHATE OF AMMONIA. Quick nitrogen; used extensively as a side dressing. 100 lbs. \$2.15.
- MURIATE OF POTASH. 50% water soluble potash. 100 lbs. \$2.85.
- SHEEP GUANO. The best natural manure. 100 lbs. \$1.00.
- SHEEP "GROSIT." Steam cleaned, pulverized manure. No weed seed. 66-lb. sack \$1.00.
- FISH MEAL. A good organic fertilizer. 100 lbs. \$2.60.
- SULPHUR. Aids in releasing insoluble plant foods in the soil. 100 lbs. \$4.50.
- PEAT MOSS. An excellent mulch or humus. Bale \$2.50. Prices f. o. b. Portland.

# Diamond Quality Grass Seeds

LABORATORY TESTED SEEDS FOR LAWNS, PASTURES, ETC.



Our seeds are of the choicest new crops. They are re-cleaned and double tested in our seed laboratory for purity and germination. Prices are postpaid to the fourth zone only.

**DIAMOND FANCY LAWN MIXTURE.** Scientifically blended from the choicest grass seeds, carefully selected for their fineness, their deep rooting, close growing habits and seasonable qualities. Producing a dense velvety turf that stays green throughout the year. Sow one pound to two hundred square feet.

1 lb. 55c; 10 lbs. \$5.00 postpaid.

**DIAMOND FANCY LAWN MIXTURE with CREEPING Bent.** This mixture has sufficient Creeping Bent to eventually dominate the lawn and crowd out the weeds, at the same time giving a fine, velvety turf. Sow one pound to two hundred square feet.

1 lb. 65c; 10 lbs. \$6.00 postpaid.

**DIAMOND SHADY LAWN MIXTURE.** Especially selected for producing a fine, velvety lawn under firs and shade trees where most grasses do not thrive.

Lb. 65c; 10 lbs. \$6.00 postpaid.

**BERMUDA GRASS** (*Cynodon dactylon*). Suitable only for climates where the winters are not below the freezing point. It stands the hottest and driest season. Sow 6 pounds per acre. Lb. 50c; 10 lbs. \$5.50 postpaid.

**BLUE GRASS, CANADIAN** (*Poa compressa*). Recommended in all pasture mixtures on dry soil. Thrives well on clay or hard trodden and poor soil. Sow 25 pounds per acre. Lb. 35c; 10 lbs. \$3.00 postpaid.

**BLUE GRASS, KENTUCKY** (*Poa Pratensis*). One of the best grasses for permanent pastures, furnishing a constant supply of feed during the greater part of the year. Lawns, 1 pound to 200 square feet. Pasture, 25 pounds per acre. Lb. 50c; 10 lbs. \$4.50 postpaid.

**ASTORIANA CREEPING BENT GRASS.** This is one of the most popular Bents, because it is a true type and not a mixture. It requires less moisture and does well on higher, drier ground and will stand severe cold winters much better than other Bents. It has a beautiful, pleasing green and a fine, velvety texture, forming a matted turf and one that will stand much hard wear. It forms a permanent lawn and improves with age. One pound to 300 square feet.

Lb. \$1.00; 10 lbs. \$9.50 postpaid.

**PACIFIC CREEPING BENT GRASS.** Grown on this coast, acclimated to this country and especially recommended for golf courses. It makes an exceptionally fine turf that smothers out weeds.

Lb. 90c; 10 lbs. \$8.50 postpaid.

**BROMUS INERMIS** (Awnless Brome Grass). The best grass we have for the semi-arid regions of the Northwest. Grows luxuriantly, is freely eaten dry or green by cattle. Sow 25 to 30 pounds per acre. Spring or fall. Lb. 40c; 10 lbs. \$3.50 postpaid.

**CRESTED DOG'S TAIL** (*Cynosurus cristatus*). A perennial grass with short, narrow leaves. Valuable for lawns or pastures on dry, light land. Makes excellent sheep pasturage. Use 20 pounds per acre if sown alone. Lawns, 1 pound to 100 square feet.

Lb. 60c; 10 lbs. \$5.50 postpaid.

**FESCUE, CHEWING** (*Festuca Duriuscula*). A low-growing grass, fine leaved, forms a close turf that prevents ingress of weeds. Permanent in all kinds of soils. Unexcelled for lawns and golf courses. Lawns, 1 pound to 200 square feet. Pasturage, 30 pounds per acre.

Lb. 45c; 10 lbs. \$4.00 postpaid.

**FESCUE, MEADOW** (*Festuca pratensis*). Perennial. Grows 3 to 4 feet high. Roots deep, thus resisting drouth. It succeeds on any ordinary soil. Yields a heavy crop of superior hay. One of the best grasses for pastures, being valuable to mix with other kinds. Pasture, 30 to 40 pounds per acre.

Lb. 35c; 10 lbs. \$3.00 postpaid.

**MESQUITE** (*Holcus lanatus*). Usually sown on virgin soil without cultivation, after ground is burned over. Pasture, 20 to 30 pounds per acre.

Fancy hulled seed, lb. 30c; 10 lbs. \$2.50 postpaid.

**OAT GRASS, TALL MEADOW.** The earliest grass to start in the spring and the last to die in the fall. Withstands drouth, heat and cold much better than other grasses. A long-lived, deep-rooted perennial. Grows equally on bottom or upland. Pasture, 20 to 30 pounds per acre. Lb. 40c; 10 lbs. \$3.50 postpaid.

**ORCHARD GRASS** (*Dactylis Glomerata*). One of the most valuable of all the cultivated grasses. As a pasture grass it is more productive than any other, and does best under close feeding. Sow 28 pounds per acre. Lb. 35c; 10 lbs. \$3.00 postpaid.

**RED TOP** (*Agrostis Palustris*). A good perennial grass for permanent lawns and pastures. Does best on moist, marshy land, if not overflow land. Sow seed 14 pounds to the acre. Lawns, 1 pound to 200 square feet. Lb. 35c; 10 lbs. \$3.00 postpaid.

**ROUGH STALK MEADOW GRASS.** For shady lawns or wood pastures. An excellent grass. Sow 1 pound to 200 square feet for lawns.

Lb. 55c; 10 lbs. \$5.00 postpaid.

**RYE GRASS, ENGLISH** (*Lolium perenne*). A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. Pasture, 30 pounds per acre.

Lb. 25c; 10 lbs. \$2.00 postpaid.

**RYE GRASS (Pacey's Short Seeded English).** Sown thickly, it makes a fine lawn very quickly. Used extensively for polo grounds on account of its tough, heavy sod. Sow 1 pound to 200 square feet for lawns. Lb. 25c; 10 lbs. \$2.00 postpaid.

**RYE GRASS, ITALIAN (Lolium Italicum).** Very desirable for temporary meadows or pastures. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage. Pasture, 30 pounds per acre. Lb. 20c; 10 lbs. \$1.50 postpaid.

**RYE GRASS, OREGON.** The finest rye grass grown, far superior to imported. Pasture, 30 pounds per acre. Lb. 20c; 10 lbs. \$1.50 postpaid.

**TIMOTHY (Phleum pratense).** This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the spring or fall. Pasture, 8 to 12 pounds per acre. Lb. 20c; 10 lbs. \$1.75 postpaid.

## PASTURE MIXTURE OF GRASS

Write for prices on special pasture mixtures. Postpaid prices are to fourth zone only. Beyond that, include additional postage.

**No. 16—LOWLAND PASTURE MIXTURE.** This mixture is for continuous pasture on low, moist ground. 10 lbs. \$1.75 postpaid. Write for 100 lb. prices.

**No. 17—UPLAND PASTURE MIXTURE.** A mixture of grasses well known for their drouth resistance and deep rooting qualities. 10 lbs. \$1.75. Write for 100 lb. prices.

**MIXTURE FOR BURNED-OVER LAND.** A blend of grasses for sowing on burns and logged-off lands. Splendid value and very economical for such purposes. 10 lbs. \$1.50 postpaid. Write for 100 lb. prices.

## CLOVERS

Postage prices are to fourth zone only. Add extra postage if beyond. Clover prices subject to market changes.

**LADINO WHITE CLOVER.** Is a very large form of clover, usually making a growth of 8 to 12 inches. A perennial. The stems lie flat on the ground and commonly root at the joints. Can be grown on rather shallow land where well supplied with humus and moisture. Makes especially vigorous growth on the lower, medium heavy types of soils in Western Oregon, under irrigation or natural moisture during growing season. Grown for hay, pasture and seed. Will carry twice as much stock per acre as blue grass. Sow 4 to 6 pounds per acre. Lb. \$1.25; 10 lbs. \$12.00 postpaid.

**YELLOW SWEET CLOVER, BIENNIAL (Melilotus Officinalis).** In great demand on account of its earliness, being about two weeks earlier than the white. Does not grow as tall as white, but makes just as good pasture. Produces high quality hay. Lb. 25c; 10 lbs. \$2.00 postpaid. Write for quantity prices.

**YELLOW SWEET CLOVER, ANNUAL (Melilotus Indica).** Now recognized as the legume best adapted for green manuring in orchards because it may be planted later in the fall after all crops have been harvested, and will grow all winter with only the season's rainfall. Lb. 25c; 10 lbs. \$2.00 postpaid. Write for quantity prices.

**WHITE SWEET or BOKHARA CLOVER, BIENNIAL (Melilotus Alba).** Excellent for pasture, hay and a soil improver. More drouth resistant than alfalfa and will generally produce a large crop of seed and hay the second year. Thrives best on alkali soil. Lb. 25c; 10 lbs. \$2.00 postpaid. Write for quantity prices.

**HUBAM SWEET CLOVER, ANNUAL.** An annual white blossom sweet clover, very similar to Melilotus Alba. Rapid growing. Makes an ideal crop for turning under or soiling in orchards. Good stock pasture. Seed 20 pounds per acre. Lb. 45c; 10 lbs. \$4.00 postpaid. Write for quantity prices.

**CRIMSON or SCARLET CLOVER (Trifolium Incarnatum.)** Highly recommended for pasture and fertilizing purposes. A thrifty annual. Germinates quickly, grows rapidly, stools abundantly. Lb. 30c; 10 lbs. \$2.50 postpaid. Write for quantity prices.

**MAMMOTH RED CLOVER.** Grows very large and is used almost exclusively for plowing under for manure. Lb. 40c; 10 lbs. \$3.50 postpaid. Write for quantity prices.

**RED CLOVER (Trifolium Pratense).** The standard clover for all purposes. Hardy. Succeeds well on any good soil. Makes superior hay. Lb. 35c; 10 lbs. \$3.00 postpaid. Write for quantity prices.

**ALSIKE or SWEDISH CLOVER (Trifolium Hybridum).** A perfectly hardy perennial. Excellent for hay and pasture. Resists both drouth and excessive moisture. Lb. 35c; 10 lbs. \$3.00 postpaid. Write for quantity prices.

**WHITE DUTCH CLOVER (Trifolium Repens).** Superior for pasture. Makes a beautiful lawn when mixed with blue grass. Diamond Fancy, lb. 55c; 10 lbs. \$5.00 postpaid.

## ALFALFA SEED

**DRY LAND ALFALFA.** Recommended for the high, dry lands. 10 lbs. \$2.75. Write for quantity prices.

**ALFALFA, DIAMOND FANCY.** Does exceptionally well where growing conditions are normal, including irrigated lands. 10 lbs. \$2.75 postpaid. Write for quantity prices.

**GRIMM ALFALFA (Certified).** The hardest alfalfa known. Its value has been demonstrated beyond question. 10 lbs. \$3.50 postpaid. Write for quantity prices.

## SEED FLAX

10 lbs. \$1.50 postpaid. Write for quantity prices.

## BARLEY

**SUCCESS BEARDLESS BARLEY.** Straw about height of common barley. Stands up better than other varieties. Contains no beard. Write for prices.

**TREBI BARLEY.** A blue, six-row barley, suited to short growing season. Write for prices.

**O. A. C. No. 7 BARLEY.** A white, six-row winter barley. Write for prices.

**WHITE HULLESS or BALD BARLEY (Beardless).** An early spring variety. When threshed is hullless like wheat. Write for prices.

**COMMON BARLEY.** A white, six-row, bearded variety. Write for prices.

**HANNCHEN BARLEY.** Heavy yielding, medium early, white, two-row, bearded type. Write for prices.

## BUCKWHEAT

10 lbs. \$1.50 postpaid. Write for quantity prices.

**SILVER HULL.** Light gray color, thin husk, matures early. Heavy yielder.

**JAPANESE.** Grains large, dark brown, very thin hull. Matures early. Yields heavy.

## MILLETS

10 lbs. \$1.50 postpaid. Write for quantity prices.

**JAPANESE BARNYARD MILLET.** This millet is exceedingly palatable and is the best of summer green feeds for the cool coast sections.

Other varieties of Millets we can supply:

**GERMAN or GOLDEN. BROOM CORN. EARLY FORTUNE. NEW SIBERIAN. WHITE WONDER.**

## SEED OATS

**ECLIPSE SIDE OATS.** Medium late. Heads large, well filled, kernels plump and heavy. Write for prices.

**CLIMAX TREE OATS.** Medium early, producing large, white kernels, rather thin hulls. Write for prices.

**WHITE SEED OATS.** Selected, recleaned stock. Write for prices.

**WHITE SIDE OATS.** Selected, recleaned stock. Write for prices.

**SWEDISH RED OATS.** Tree oat. Soft hull. Fine strain. Ideal for hay. Write for prices.

**GRAY WINTER OATS.** Used as fall or winter. May be sown in the spring for hay in coast sections. Write for prices.



## SORGHUMS

10 lbs. \$1.35 postpaid. Write for quantity prices.

**SUDAN GRASS.** An excellent drouth resisting forage plant. All stock relish it.

Other non-saccharine varieties of Sorghums we can supply:

**BROOM CORN. MILO MAIZE. FETERITA. KAFFIR CORN.**

## SEED RYE

**SPRING RYE (Bearded).** Choice, recleaned seed. Write for prices.

**ROSEN RYE.** A fall or winter rye. Each head has 4 rows of grain. Grains are larger than common rye. Write for prices.

**COMMON WINTER RYE.** Choice, recleaned seed. Write for prices.

## RAPE

**DWARF ESSEX RAPE.** One of the best forage plants, producing immense quantities of green feed when grass and other crops are dried up. Excellent pasture for all stock.

10 lbs. \$1.25 postpaid. Write for quantity prices.

## VETCH

**HUNGARIAN.** Finer stemmed and leafier than most forage vetches. Suitable to various types of soils. Very resistant to aphid attacks. Write for prices.

**PURPLE (Vicia Atropurga).** Used as cover crop in orchards. Can also be used as a hay or silage crop. Write for prices.

**AUSTRIAN WINTER FIELD PEAS.** A popular variety for forage, either hay or silage. Excellent cover crop. Write for prices.

**FIELD PEAS.** We can supply the Canadian or the Blue Bell varieties. Write for prices.

**COMMON VETCH.** An excellent hay, green feed, pasture or silage vetch. Write for prices.

**HAIRY VETCH (Vicia Villosa).** Thrives on poor, arid, sandy soils. Write for prices.

**TANGIER PEAS.** Used for silage and soilage purposes. Write for prices.

## SEED WHEAT

**SEED WHEAT.** We have the following varieties of selected, recleaned seed: Jenkins Club, White Winter, White Holland, Blue Stem, Red Russian. Write for prices.

**EVERGREEN CHEAT (Bromus Secalinus).** Does well on low or moist soil. Will stand considerable overflow. Cut for hay before it gets too ripe. Write for prices.

## SUNFLOWER

**MAMMOTH RUSSIAN.** The largest and most productive variety.

Lb. 25c; 10 lbs. \$1.65 postpaid. Write for quantity prices.

## SPELT or EMMER

**EMMER.** Thrives well on poor soil. Produces heavy yields of grain and hay. Sow in spring. Write for prices.

## SEMESAN

For Flower and Vegetable Seeds

Applied in dust or liquid form to the seed before planting. One ounce treats 15 lbs. of seed. Poison; not mailable.

2 oz. 50c; 1 lb. \$2.50; 5 lb. \$11.75; 25 lb. \$46.25.

## SEMESAN, JR.

For Sweet and Field Corn

Especially effective in controlling infections of Diplodia, Gibberella and Basisporium. Poison; not mailable.

4 oz. 40c; 1 lb. \$1.50; 5 lbs. \$7.00; 25 lbs. \$28.75; 100 lbs. \$110.00. All prices f. o. b. Portland.

## NEW IMPROVED SEMESAN BEL

For Seed White and Sweet Potatoes

Simply mix, dip, drain, dry and your seed potatoes are ready for planting. Used on either whole or cut seed pieces. Controls scab, rhizoctonia and black leg. One pound treats 70 to 80 bushels.

4 oz. 50c; 1 lb. \$1.75; 5 lbs. \$8.00; 25 lbs. \$31.25; 100 lbs. \$120.00. All prices f. o. b. Portland.

## NEW IMPROVED CERESAN

For Seed Treatment of Small Grains

Effective in controlling bunt or stinking smut or wheat; stripe disease of barley; loose and covered smuts of barley and oats and covered kernel smut of sorghum. 1 lb. will treat 32 bushels of wheat, rye or sorghum and oats. Poison; not mailable. 1 lb. 75c; 5 lbs. \$3.00.



# INOCULATE

Alfalfa, Soy Beans

Clovers — all Legumes

with

# NITRAGIN

**65c** per bu. size — Alfalfa, Clovers, Lespedeza

**50c** per bu. size — Peas, Vetch, Beans, Aust. W. Peas

**35c** per bu. size — Soy Beans, Cow Peas

**REDUCED TO**

**YOU CAN NOW AFFORD TO INOCULATE ALL YOUR LEGUMES WITH DATED, HIGH COUNT NITRAGIN.**

Full value guaranteed in every package of NITRAGIN—packed with Billions of live, fresh and efficient Legume Germs.

For your protection every package of NITRAGIN bears the Expiration DATE, Germ COUNT when packed and the PRICE. Don't gamble! Know what you are buying. Insist on NITRAGIN.

**NITRAGIN EASY TO APPLY**

NITRAGIN is a granular MOIST soil-like culture, packed in tins. Easy to apply. Directions on every can.

NITRAGIN—The Original Legume Inoculator—is the lowest priced, high quality inoculator on the market.

**NITRAGIN INOCULATION PRICES**

When ordering, always specify kind of seed.

Alfalfa, all Clovers Lespedeza		Soy Beans, Cow Peas	
Size	Price	Size	Price
½ bu. ....	\$ .35	1 bu. ....	\$ .35
1 bu. ....	.65	2 bu. ....	.65
2½ bu. ....	1.40	5 bu. ....	1.40
		10 bu. ....	2.45

Peas, Vetch, Beans, Austrian Winter Peas		Garden NITRAGIN for Peas, Beans, Sweet Peas and Lupines	
Size	Price		
½ bu. ....	\$ .35	Can be used on any amount of seed, up to 8 lbs. Price 25c	
1 bu. ....	.50		
*1½ bu. ....	.80		
5 bu. ....	2.25		
*“100 lb. size” packed only for Vetch and Peas.			

ALWAYS THE LARGEST—and most widely distributed inoculator in the U.S.A.

Germāco

# Hotkaps

## Individual Hothouses for Every Plant

“Hotkaps” furnish each young plant with complete protection from wind, rain, frost and insects. They afford the best crop insurance and bring you more profit.

1M \$9.75; 5M \$9.60 per M; 10M \$9.50 per M; 25M \$9.25 per M.

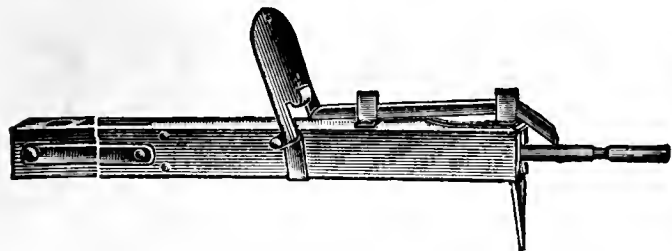
Steel “Hotkap” Setters.

Each \$2.25. All prices f. o. b. Portland.

Pressboard “Hotkap” Setters. Each 50c f. o. b. Portland.

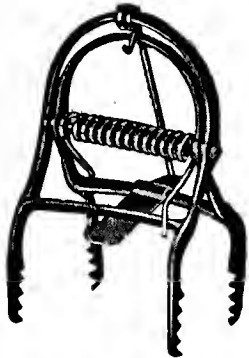
250 Home Package, including setter \$3.50; 100 Home Package, including setter, \$2.25 f. o. b. Portland.





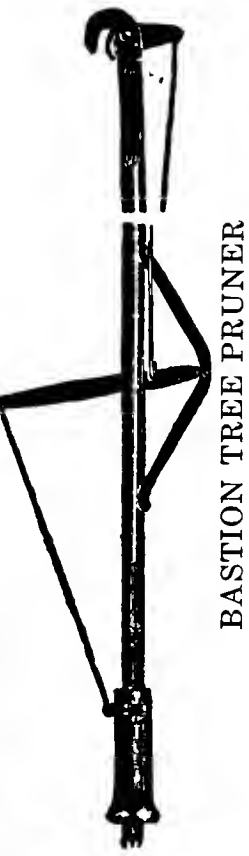
**THE NEVER-FAIL GOPHER GUN.** Positive destruction of gophers, moles, squirrels, rats and other burrowing pests. Use .38 blank cartridges. Each \$1.85 postpaid.

**OFFICIAL RAT TRAP.** Spring releases with either upward or downward pressure.

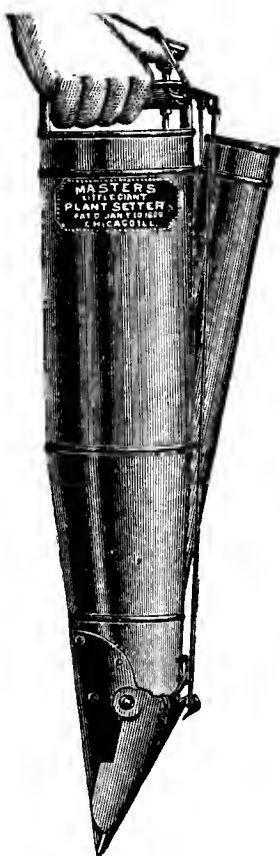


Official Rat Trap, weight 1 lb., each 15c.

**OUT O' SIGHT MOLE TRAP.** Sure to "get them." Postpaid, \$1.40.

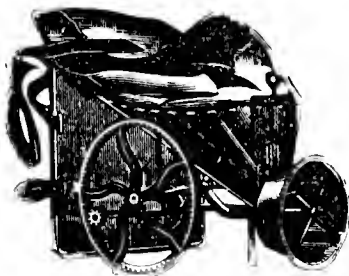


BASTION TREE PRUNER



**MASTER'S PLANT SETTER.** With a "Master's" you can set, water and fertilize 10,000 plants a day and do better work than if set by hand. Works as fast as you walk. Sets cabbage, kale, celery, tomatoes and vegetable plants of all kinds. Shipping weight 5 lbs. Price \$6.75, postpaid.

**NEW BASTION TREE PRUNER.** The powerful lever enables you to do the same work in half the time that would be required with old style pruners. Damascus steel blades, very strong, hold their cutting edge. Light, strong and durable. 6 ft. \$2.00; 8 ft. \$2.25; 10 ft. \$2.50; 12 ft. \$2.85; f. o. b. Portland.



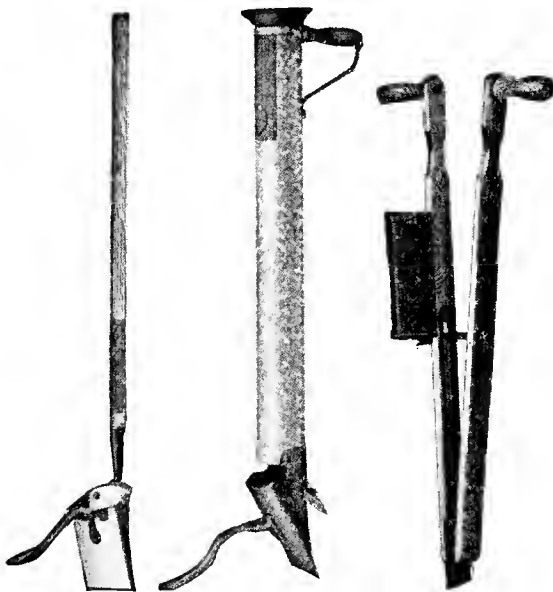
**CAHOON SEEDER.** Made of steel, iron and brass. The most popular and best. Force feed. Does excellent work. Sows all grains and grass seeds. Weight 9 lbs. Instructions included. Price \$5.00, f. o. b. Portland.



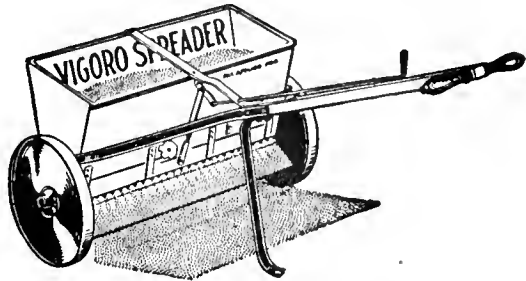
**CYCLONE SEEDER.** Sows any kind of seed perfectly, any amount desired per acre. Price \$2.50, f. o. b. Portland.



**HORN SEED SOWER.** Nozzle is adjustable. Heavy tin. Price \$1.00, f. o. b. Portland. **GRAFTING WAX**—1/4 lb. 20c; 1/2 lb. 35c; 1 lb. 60c.



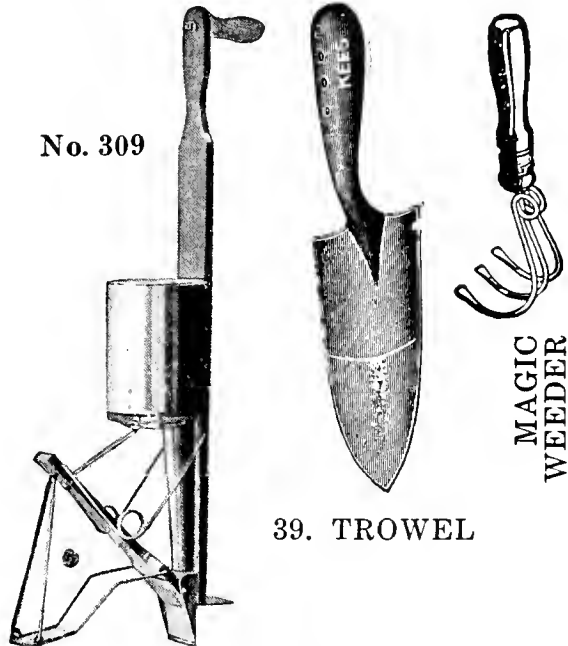
No. 301 **POTATO PLANTER.** Price \$1.25.  
No. 302 **TUBULAR POTATO PLANTER.** Opens automatically by forward movement. Price \$1.75, f. o. b. Portland.  
No. 306 **CORN PLANTER.** Adjustable from popcorn to large kidney beans. Price \$1.25 postpaid.  
No. 309 **AUTOMATIC CORN PLANTER.** Price \$2.50, f. o. b. Portland.



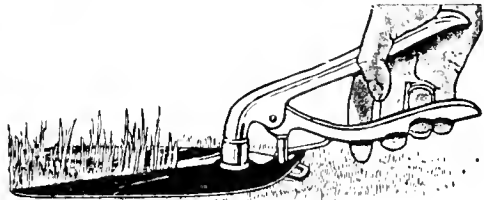
**Vigoro Spreaders**

Vigoro Spreaders are mighty handy garden implements. They apply Vigoro and grass seed evenly and quickly assuring a velvety green lawn.

Made in four sizes—	Prices
Model B .....	\$ 3.45
Junior Spreader .....	6.90
Standard Spreader .....	15.50
Special Spreader .....	21.50



**No. 309 TROWEL.** MAGIC WEEDER. Spring steel, 3 tines. Price 25c, postpaid.  
**No. 39 ALL STEEL TROWEL.** One-piece, unbreakable. Blue lacquered, sharpened. Price 25c postpaid.  
**No. 38 GALVANIZED STEEL TROWEL.** One-piece blade and handle. Price 10c.



**GOODWIN GRASS SHEARS.** Made to cut fast and clip close without barking knuckles or making blisters. Easy to get into corners, or cut edges at walks, around shrubs and flowers, etc. Every inch of blade lies flat on ground. Will cut the toughest grass from tip to hilt. Hand is in comfortable position. Shipping weight 1 lb. Ball Bearing Model \$1.75, Bronze Bearing Model \$1.25, f. o. b. Portland.  
**VILLAGE BLACKSMITH BRAND GRASS SHEARS.** Full polished, 6-inch, hollow ground, tempered steel blades. Clean cutting. No. V51. With trowel shank. Special price \$1.00. No. V1. Without trowel shank. Price 75c.

# HUDSON • SPRAYERS



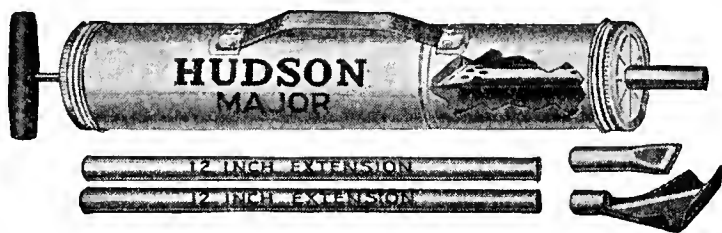
**MISTY.** A universal favorite for use about the house, yard, garden, etc. Pump: 1½ inches diameter, 14 inches long. Tank: 4 inches diameter, 4 inches long.

452. **MISTY, Tin Tank** .....50c



**CONTINUOUS SPRAYERS. No. 432.** An exceptionally sturdy outfit. Pump: 1½ inches diameter, 14 inches long. Tank: 4 inches diameter, 4 inches long.....85c

**No. 427.** Same as 432 except glass jar tank. Contents 1 pint. Standard Mason jar mouth.....\$1.30



**MAJOR DUSTER.** Handles Paris Green, Arsenate of Lead, etc. Used in field, barn, and household dusting. Pump: 2¾ inches diameter, 9-inch stroke. Powder reservoir: 2¾ inches diameter, 5 inches long. Discharge equipment: Two 12-inch extensions, one straight, flat nozzle, and one broad angle tip.

665. **MAJOR** .....\$1.25

**CARDINAL.** A continuous sprayer designed for use with fly oils in dairy barn, milk house, creamery, etc.; also strong disinfectants of all types. Pump: 1½ inches diameter, 13 inches long. Tank: 5½ inches diameter, 6¾ inches long. Shipping weight 10 lbs.

435NS. **CARDINAL, Tin Pump, Galvanized Tank**....\$1.60

**CAPITAL.** Compressed air type automatic shut-off valve, controlled by touch of finger. Handles fly oils, disinfectants, etc. Pump: 1½ inches diameter, 15 inches long. Tank: 5½ inches diameter, 6¾ inches long. Capacity 3 quarts.

437. **CAPITAL** .....\$2.75

**FOG.** For fly oils and other household insecticides. Completely vaporizes all liquid discharged. Pump: 1½ inches diameter, 10 inches long. Tank: 3 inches diameter, 3 inches long. Capacity about ¾ pint.

303ND. **FOG** .....35c

**HANDY.** Adapted for use about the yard, garden, poultry house, etc. Pump: 1½ inches diameter, 13 inches long. Tank: 4 inches diameter, 4 inches long. Capacity, 1 quart.

440. **HANDY** .....40c

**MIDGET.** A small, well-made sprayer for general purposes, especially adapted for home use. Pump: 1¼ inches diameter, 10 inches long. Tank: 3 inches diameter, 3 inches long. Capacity about ¾ pint.

202. **MIDGET** .....35c

**G3½ SPRAYER.** Meets the need for a small, inexpensive sprayer for the home. Pump: 1¼ inches diameter, 8 inches long. Tank: glass bottle. Capacity 4 ounces.

G3½ **SPRAYER** .....20c

**PATROL.** Two 12-inch extensions and reversible angle nozzle makes the Patrol very popular for market gardeners, etc. Pump: 1¾ inches diameter, 14 inches long. Powder reservoir: standard size mouth quart jar. Discharge equipment. Two 12-inch extension pipes and broad angle nozzle.

612. **PATROL** .....\$1.50

**SIGNAL.** A favorite for use about the home. Pump: 1½ inches diameter, 7-inch stroke. Powder reservoir: 1½ inches diameter, 3 inches long.

660. **SIGNAL** .....35c

**CADET.** Adapted for use with all insect powders. Small and easy to handle. Pump: 1¾ inches diameter, 8-inch stroke. Powder reservoir: 1¾ inches diameter, 5 inches long.

663. **CADET** .....50c

**HUDSON BUCKET SPRAY PUMPS.** These pumps are sturdy outfits adapted for spraying fruit trees and vines, garden truck, ornamental shrubs, etc. Develops 150 pounds nozzle pressure with ease.

122. **MODOC** .....\$3.80

128. **MOHAWK** .....3.65

**THRIFTY.** Small home owners whose work does not justify the investment of a larger type. 6½ inches diameter, 17 inches high; capacity approximately 2½ gallons.

120G. **THRIFTY, Galvanized Tank** \$4.25

**PERFECTION JUNIOR.**

A high pressure compressed air sprayer of small capacity. 6½ in. in diameter; 18 in. high; capacity 2½ gallons.

140G **JUNIOR PER-**

**FECTION, Galvanized Tank** ....\$5.25

140B. **JUNIOR PERFECTION. Copper Tank** .....7.75



No 125-140

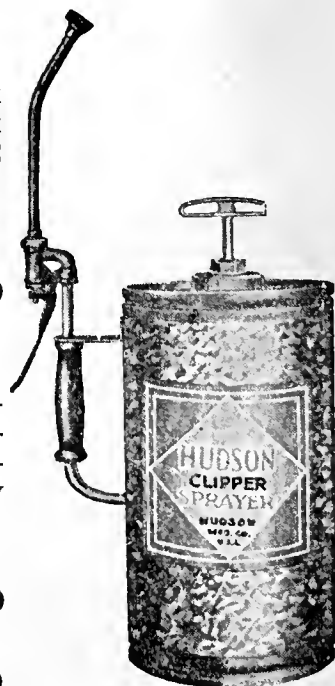
**CLIPPER.** Very popular for back yard gardens and small truck farms. 6½ inches diameter, 12 inches high; approximately 1½ gallons.

138G. **CLIPPER, Galvanized Tank** .....\$4.50

**ECONOMY.** Designed to give purchaser greatest value at an attractive price. 7½ inches diameter, 20½ inches high; capacity 4 gallons.

125G. **ECONOMY, Galvanized Tank** .....\$5.50

125B. **ECONOMY, Copper Tank** .....8.50



# INSECTICIDES FUNGICIDES

ALL PRICES F. O. B. PORTLAND



**ALL ROUND SPRAY.** Contains Arsenate of Lead for leaf-eating insects (worms and beetles), "Black Leaf 40" for sucking insects (aphis, thrip) and Bordeaux Mixture to prevent blight and fungus diseases. One product for all purposes! Poison!

1/4-lb. Metal Carton.....35c  
1-lb. Metal Carton.....80c

**ARSENATE OF LEAD.** For fruit tree spraying and protection of gardens and ornamentals, from chewing insects. Sticks well to the foliage and does not burn. Poison!

1/2-lb. Carton .....20c  
1-lb. Carton .....30c  
4-lb. Bag .....75c

**LIME-SULFUR.** Standard 33° Baume lime and sulphur solution, converted into dry powder form. Having all the effectiveness of the liquid product, when dissolved in water. Excellent for fruit tree scale. Poison!

1-lb. Metal Can .....\$0.30  
5-lb. Metal Can ..... 1.25  
10-lb. Metal Can ..... 2.25

**M-S-R DUSTING SULPHUR.** Recommended by all authorities for the control of black spot, mildew on roses and many other plant diseases. Contains bentonite to keep it from lumping and balling, assuring maximum results.

3-lb. Carton .....40c

**BORDEAUX MIXTURE.** Prevents blight, rot, mildew, scab, anthracnose and certain other fungous diseases. It can be used either dry or in a liquid spray with full assurance of its being completely combined to avoid damage.

1-lb. Carton .....30c  
4-lb. Bag .....65c

**GARDEN GUARD.** A sensational new insecticide that controls all common types of garden insects and is non-poisonous. This exceptionally fine "killer" contains Rotenone, the latest discovery for insect control. We highly recommend this dust to all home gardeners because of its all-around use and effectiveness. Sifter top can.

1-lb. Can .....35c

**PARIS GREEN.** Scientifically made from finest raw materials, producing a dust outstanding in color, strength and physical properties. Contains 55% arsenous oxide. Poison!

1/4-lb. Carton .....\$0.15  
1-lb. Carton ..... .50  
5-lb. Carton ..... 2.25



**BAIT-M.** A bait to combat such insects as snails, cutworms, sow bugs and grasshoppers which appear in large numbers at certain seasons, migrating along the ground. Never apply directly on the plant.

1-lb. Carton .....40c  
3-lb. Carton .....75c

## ACME SPRAYING GUIDE

When and What to Spray

Write for this Fine Guide Free

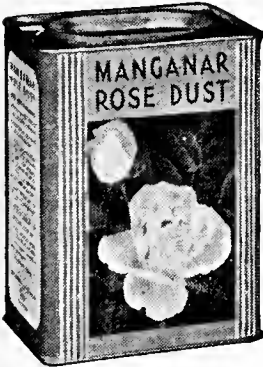
**CALCIUM ARSENATE.** A very economical potato spray. Contains not less than 40% arsenic oxide and not more than 3/4% water soluble arsenic oxide.

1/2-lb. Carton .....15c  
1-lb. Carton .....25c  
4-lb. Bag .....60c

**APHIS SPRAY.** Combines the two oldest and finest contact sprays, "Black Leaf 40" and Fish Oil Soap. Packed in a convenient 3-oz. tube. No messy mixing! Just squeeze into a sprayer, add sufficient water, shake well, then spray. Poison!

3-oz. Collapsible Tube.....35c  
12-oz. Tin .....95c

ALL PRICES F. O. B. PORTLAND



**MANGANAR ROSE DUST.** Controls black spot, brown canker, mildew, rusts, etc. Kills and prevents leaf-eating insects—rose slugs, leaf rollers, etc. Suckling insects—aphids, leaf hoppers, etc. Does not contain calcium arsenate or lime-sulphur.

1-lb. Carton .....\$0.40  
5-lb. Carton ..... 1.65

**GOLD LEAF TOBACCO POWDER.**

2-lb. Pkg. ....\$0.35  
10-lb. Pkg. .... 1.00  
100-lb. Pkg. .... 7.50

**BLUE STONE (Blue Vitriol).**

1-lb. Bag .....10c

Write for prices of larger quantities.

(NOT MAILABLE)

# DUTOX

REG U S PAT OFF

A Non-Arsenical Insecticide

1-lb. Bag .....\$0.30  
5-lb. Bag ..... 1.60

**TREE TANGLEFOOT.** For caterpillars, moths and worms. Protects trees against all climbing insects. Can be used with absolute safety with no possible injury to tree.

6-oz. Can .....\$0.25  
1-lb. Can ..... .60  
5-lb. Can ..... 2.50

Write for prices of larger quantities.

**DUTOX.** A non-arsenical insecticide! Kills beetles, weevils, and leaf-eating insects. Excellent for vegetables, fruit, tobacco, etc. Especially fine for apples.

**BLACK LEAF 40.** Destroys aphis, thrips, leaf hoppers on all tree, bush and vine fruits, vegetables, field crops and flowers.

1-oz. Bottle ( 6 gals. of spray).....\$0.35  
5-oz. Bottle (30 gals. of spray)..... 1.00  
1-lb. Bottle (80-240 gals.) ..... 2.25

Write for prices of larger quantities.

**NAPHTHALENE.** Drives away grubs, wire worms, slugs, centipedes, aphis, etc. Used in treating the soil for insect pests.

1-lb. Tin .....\$0.25  
5-lb. Tin ..... .75  
10-lb. Tin ..... 1.25

Write for prices of larger quantities.

**EVERGREEN.** This improved spray simplifies insect control for home gardeners. Takes care of 95% of the insect troubles, 20% stronger in pyrethrum (the killer among insects)! Non-poisonous!

1-oz. Bottle ( 6 gals. spray).....\$0.35  
6-oz. Can ..... 1.00  
16-oz. Can ..... 2.00

Write for prices of larger quantities.

**SNAROL.** Rid your garden of cutworms, snails, slugs, earwigs and grasshoppers. Snarol is a ready prepared meal, easy and inexpensive to use and does the work quickly and surely.

1 1/2-lb. Carton .....\$0.35  
4-lb. Carton ..... .75  
15-lb. Bag ..... 2.25

Write for prices of larger quantities.

**SULPHUR.** Excellent for dusting. Cures and prevents mildew, rust, and black spots. Can be used for fertilizer but not recommended.

1 lb. ....10c  
3 lbs. ....25c



## NEW EVER GREEN SPRAY



A Complete Line •

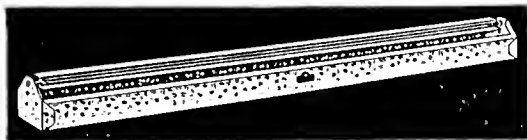
**LINCOLN**  
 Poultry Equipment

• Made of the Best

**REEL TYPE CHICK FEEDER**

(with metal revolving reel) Nos. 40, 41, 42. All steel baby chick feeder.

The open top revolving reel feeders are the most sanitary, most popular on the market today. These are the greatest values ever offered poultry raisers. Made of heavy galvanized steel. The ends are welded on, making them waterproof. The galvanized steel reel will not warp or crack and is adjustable to two positions. At these exceptionally low prices.



No. 40. 18 inches long.....	25c
No. 41. 24 " ".....	35c
No. 42. 36 " ".....	50c

f. o. b. Portland

**DELUXE CHICK FEEDER (galvanized)**

Is designed along scientific lines to provide the

most sanitary feeding conditions that can possibly be obtained for chicks at all ages from baby to broiler. They are made of the best grade galvanized iron. The ends are seamed to the trough and are water tight and can be used for water as well as feed. The large four-fin reel has rustproof case-hardened pins at each end and is painted green. The adjustable brackets that support the reel are held by rustproof bolt and wing nuts. The adjustable legs are made of heavy galvanized iron and hold the trough in any position from 1¼ inches to 3 inches off the floor.

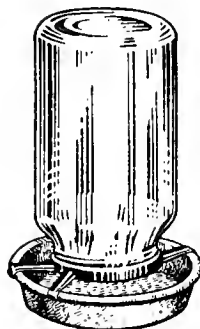


No. 140. 24 inches long.....	\$ .65
No. 142. 36 " ".....	.95
No. 143. 48 " ".....	1.25

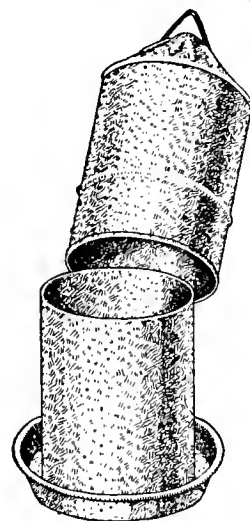
f. o. b. Portland

**GRILL TOP PAN.** An inexpensive yet modern sanitary drinking pan for grown birds. The heavy wire cone-shaped grill prevents roosting on the pan and keeps birds from getting into the pan. Pan is 15½ inches in diameter, 5¼ inches deep and has a capacity of four gallons.

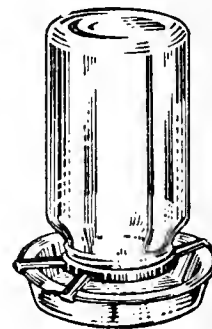
No. 114—\$1.70, f. o. b. Portland.


**FRUIT JAR FOUNTAIN (Glass) No. 21.** The drinking pan is of heavy glass. Jar holder clamp is same as No. 20.

No. 21—20c, f. o. b. Portland.


**FRUIT JAR FOUNTAIN (Galvanized) No. 20.** The drinking pan is made of copper bearing, rust resisting galvanized steel. Fruit jar is attached by heavy, painted steel clamp which the jar screws into, snaps on pan.

No. 20—10c f. o. b. Portland.


**TWO-PIECE TOP FILLING FOUNTAIN (galvanized) No. 23.** These double wall top filling fountains are especially designed for baby chicks. The pans are narrow so small chicks cannot get into the water. Steep cone-shaped tops and V-shaped wire. Made of copper bearing, rust resisting galvanized steel. 2 gallon size.

No. 23—\$1.35, f. o. b. Portland.

**NOTICE! Poultry Men — A CLOSE OUT SALE MOES LINE**

Prices f. o. b. Portland

**ROYAL LINE** Prices f. o. b. Portland
**ECLIPSE CHICK FEEDER.** A fine feeding trough, made of galvanized steel and intended for chicks and growing stock.

No. 28. 23 inches. 20 holes. 15c.

**DIXIE CHICK FEEDER.** The round troughs are easily filled and cleaned, and have a turned-in flange to prevent waste of feed.

No. 460. 18 inches long. 15c.

No. 462. 30 inches long. 20c.

**IMPROVED CHICK FEEDERS.** One of the finest and most practical Chick Feeders. The openings are just the right size and shape to give easy access to the feed.

No. 60. 24 inches long. 36 holes. 30c.

No. 76. 36 inches long. 54 holes. 40c.

**SANITARY FEEDING TROUGHS.** For full grown chickens. These feeders are much larger than ordinary chick feeders. Intended primarily for feeding wet or dry mash, and can also be used for water.

No. 21. 12 inches long. 6 holes. 20c.

No. 23. 24 inches long. 12 holes. 35c.

**SWING TOP CHICK FEEDERS.** Three-in-one swing top feeder, for chicks and grown birds. Heavy galvanized steel, with a generous size trough.

No. 458. 12 inches long. 20c.

No. 459. 24 inches long. 35c.

No. 463. 36 inches long. 45c.

No. 464. 48 inches long. 50c.

**LEADER CHICK HOPPER.** Very fine for handling dry mash and other dry feeds. Truly an outstanding offer at such a marked-down price.

No. 63. 54-Hole; 36-inch. 75c.

**COMBINATION CAPACITY HOPPER.** An item every poultryman should have. This hopper can handle both grit and mash.

No. 624. 34-Hole; 24-inch. \$0.75.

No. 636. 54-Hole; 36-inch. .90.

No. 648. 72-Hole; 48-inch. 1.20.

**CHICK TROUGH.** An ideal feeder for baby chicks.

No. 180. 18-inch. 10c.

**BUTTERMILK TROUGHS.** Made of heavy galvanized steel that is rust proof and easily cleaned.

No. 301. \$0.70.

No. 303. 1.15.

**TOP FILL FOUNTAIN.** A fine, strong fountain that continually furnishes water to the flock.

No. 203. 3-gal. \$0.90.

No. 205. 5-gal. 1.15.

**ELECTRIC BROODERS.** Very economical and safe. Will handle chicks faster and better than the old type brooders.

No. H-51. \$1.75.

**GRIT AND SHELL BOXES.** Every poultry farm should have at least one grit box.

No. 45. 2 Compartment. 25c.

**BUTTERMILK FEEDERS.** Feeding troughs in tin plate. Sliding top. Easy to clean. No seams, rivets or solder. Clean sanitary feeders.

No. 137. 13 inches. 10 holes. 15c.

No. 138. 23 inches. 20 holes. 20c.

**DRY MASH HOPPERS.** Made of heavy, tight-coated, best quality galvanized steel. All parts are accurately cut and stamped with dies, and the workmanship throughout is of the very best.

No. 35. 19 in. high; 8½ in. wide. 70c.

No. 36. 19 in. high; 12 in. wide. 95c.

**GRIT AND SHELL BOXES.** There is no more economical method of supplying grit, etc., than with these practical, inexpensive compartment boxes.

No. 9. 13 in. high; 8½ in. wide. 45c.

No. 90. 13 in. high; 11 in. wide. 60c.

**WATER VALVE AND FLOAT.** A perfect automatic valve and float, to regulate the flow of water to a drinking dish.

No. 30. 60c.

**SCRAPER AND CLEANER.** Made of heavy galvanized steel for cleaning out brood coops, nests and dropping boards.

No. 47. 10c.

**WALL FOUNTAINS.** Truly very excellent for all types of poultry. A safe, sanitary fountain designed to fit in any poultry house.

No. 40. ½ gallon size. 45c.

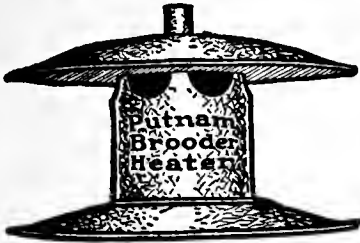
No. 42. 2 gallon size. 75c.

No. 0. 1 quart size. 25c.

### QUEEN COLONY BROODER STOVES

For hard or soft coal, briquets, coke or charcoal.

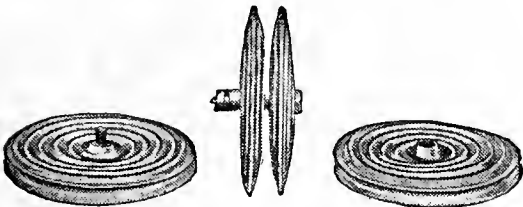
No. ....	11	22	33	44
Chick size	500	1000	1200	1600
Price f. o. b.				
Portland	\$17.00	\$21.00	\$26.00	\$31.00



**PUTNAM BROODER HEATER.** You can make your own brooder out of a box, for accommodating 25 to 60 chicks, by using this heater. Heater requires filling but once a week. Uses less than a gallon of oil a month. Perfect ventilation automatically. Heat radiates from above onto backs of chicks. Can be operated anywhere, in the house or out of doors. Directions for making brooder enclosed.

Price \$4.75 not postpaid.

**ROYAL ELECTRIC BROODERS—** No. H-51. 50 to 75 chick capacity. Trouble-proof, practical and inexpensive electric brooder, which uses a 50-watt heating unit and attaches to any socket. Canopy 24 in. in diameter; made from heavy galvanized steel and supported by strong steel legs. Complete with 10 feet of cord and screw plug. Weight 12 lbs. Each \$3.00.



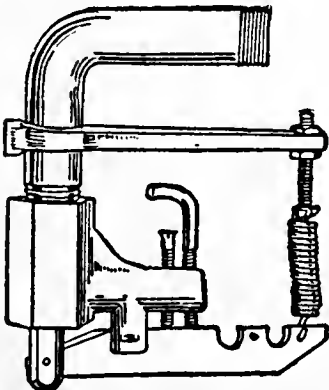
**DOUBLE UNIT WAFER THERMOMETERS FOR BROODERS.** Made of special tempered brass, vacuum filled, sensitive, accurate durable. Begin to expand about 85° Fahr.

Each 50c.

**THERMOMETERS.**

For Incubator, \$1.00.

For Brooder, 50c.



**“GUARANTEED” AUTOMATIC WATER FOUNTAIN.** Especially designed for poultry; can be attached to any water line, tank or barrel. Operates by gravity pressure of drinking pan.

Each \$1.60, postpaid.

### LEG BANDS



**SPIRAL COLORED LEG BANDS.** Made like a key ring; easy to put on; nothing to catch or tear off. All sizes. Ten colors—red, white, yellow, black, pink, green, brown, purple, light blue, dark blue.

Leghorn size, 100 for 55c; Barred Rock and Red, 100, 60c postpaid.

**KWIK-ON LEG BAND.** Easiest and quickest to put on your flocks. Once tried, always used. Safe. Color fast. Durable. Best by users' test.

No. 9, for Leghorn, 100 50c; No. 11, for large Rocks and Reds, 100 60c; No. 14, for turkeys, 100 85c postpaid.

**ADJUSTABLE ALUMINUM LEG BANDS.** Made of sheet aluminum, with large raised numbers. Easy to read from a distance. Adjustable for any size fowl. Accurately made and quickly applied.

Quantity	Price
50 Bands .....	\$0.40
100 Bands .....	0.65
500 Bands .....	3.00
1000 Bands .....	5.50

Postpaid

**WESTERN IMPROVED CAPONIZING SET.** No. 410. The Western Improved Caponizing Set, a practical and complete set of instruments for caponizing fowl. All finely finished and nickel plated. Packed complete with instructions for use. Shipping weight 8 oz.

Price, per set \$2.95.

### MARKERS

#### For Cattle, Sheep and Hogs

Your name and address on one side, number on other.

**METAL EAR LABELS.** Not more than ten large letters can be used on the hog and sheep size; 15 large or 22 small letters on cattle size.

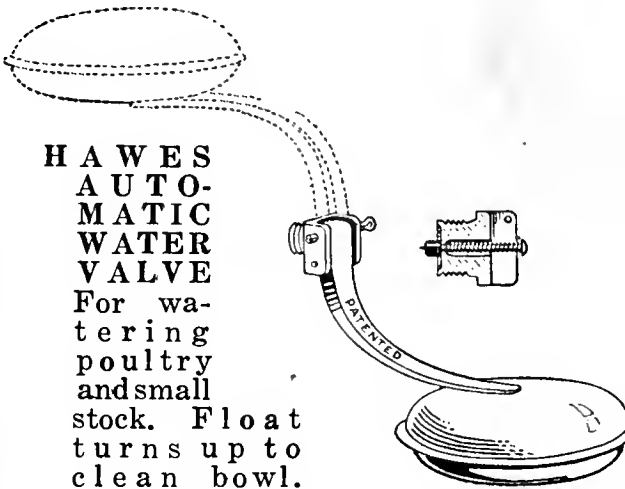
Prices—two sizes.	Sheep and Hog Cattle
100 with name and number	\$1.85..\$2.65
50 with name and number	1.35 1.60
25 with name and number	.90 .95
100 with name or number..	1.40 2.10
50 with name or number..	1.00 1.35
25 with name or number..	.75 .90

**Oval Ear Punches—**Cattle size, \$1.65; sheep and hog size, \$1.65; postage 10c each.

**IDEAL EAR BUTTONS.** Pure aluminum hardened, medium size, suits all animals. Name and address on top side; number on bottom. Easily attached with special punch and pliers. If mailed, postage extra.

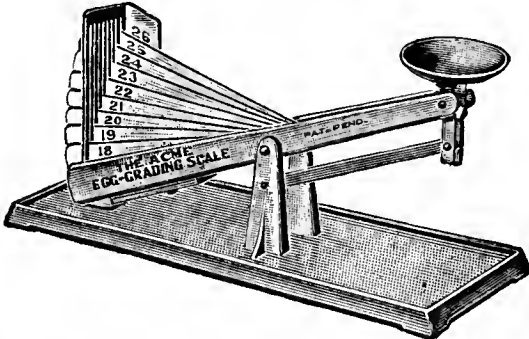
25—Mailing weight 3 ozs.....	\$ 1.50
50—Mailing weight 4 ozs.....	2.25
100—Mailing weight 12 ozs.....	3.75
500—Mailing weight 4 lbs.....	17.00
1000—Mailing weight 6 lbs.....	30.00

**Punch and Pliers, each \$1.50; postage 10c.**



**HAWES AUTOMATIC WATER VALVE** For watering poultry and small stock. Float turns up to clean bowl. Easy to install on water line or tank. Each \$1.10 postpaid.

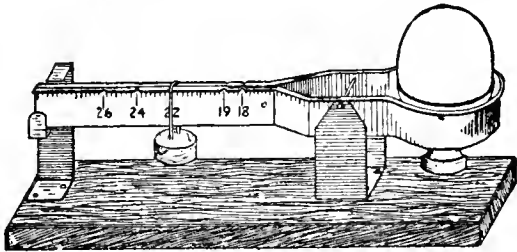
### EGG SCALES



**THE ACME EGG GRADING SCALE.** Aluminum, rust-proof, indestructible. Will meet the requirements of any state bureau of weights and measures.

No. 2—Adapted to the Pacific Coast. Grades: 18 to 26 oz.

Price \$2.85, f. o. b. Portland.

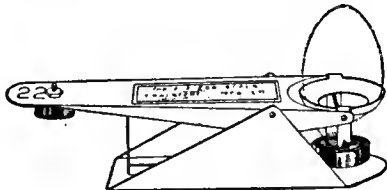


**CHAMPION EGG GRADING SCALE.** Improved type; grades with eggs in any position. Meets all requirements, grading pewee, pullet and standard eggs. Solid brass; will not get out of order; no loose parts to get lost.

Price \$1.75, f. o. b. Portland.

**GILT EDGE EGG SCALE.** Simple in construction, easy to operate, graduating by the ounce per dozen.

Price \$1.25, f. o. b. Portland.



**THE E-Z EGG SCALE.** For quick and accurate grade. Made of brass and enameled steel. Simple and durable. No springs, no loose weights, no adjustments. Sizes 19, 21, 22, 23 and 24 oz. One scale used for each grade desired.

Price, each 60c, f. o. b. Portland.

**E-Z TURKEY EGG SCALE.** Sizes 2½, 3, 3½ oz.

Price, each \$1.00; postage 10c.



## LIQUID

Every home, barn, poultry house, etc., should have a bottle of B-K handy. It has 110 uses! A marvelous disinfectant, deodorant, antiseptic, etc., and Not a Poison. Water clear and leaves no stain on floors, walls, etc. Purifies water and kills bad odors. Highly concentrated.

4 oz. 30c; 10 oz. 50c; 32 oz. 90c; 1 gal. \$2.00; 5 gal. \$8.50. Prices f. o. b. Portland.

## POWDER

This form of B-K is rapidly becoming popular. Capable of handling the same things as the liquid. Considered by many, much easier to handle in powder form.

Contains 3½% Available Chlorine! Used a great deal in dairies, schools and institutions.

One 9½-oz. bottle will make one gallon of 3½% sodium hypochlorite solution. Price 75c, f. o. b. Portland.

One 1¾-lb. bottle will make 3 gallons of 3½% sodium hypochlorite. Price \$1.50, f. o. b. Portland.

## Wyandotte Sanitary Cleaner and Cleanser

A cleaner especially prepared for creamery, cheese factory and dairy purposes. It contains no grease. It makes no suds. It has no soapy smell. It is pure and purifying. It cuts the butterfats and milk solids quickly and thoroughly, making everything sweet, clean and sanitary.

3 lb. pkg. 35c; 5 lbs. 50c; 80 lb. keg \$6.00 f. o. b. Portland.

## KOW KARE

Kow Kare is highly concentrated and, because of the small dosage required for average needs, is very inexpensive to use. It is a special remedy for cow diseases, such as barrenness, scours, milk fever, caked udders, etc. It prevents abortion and removes retained afterbirth. Tones up the system, renews vitality, restores appetite, etc.

It is the dairyman's gold mine and a sure profit-payer!

Small size 65c; large size \$1.25, f. o. b. Portland.

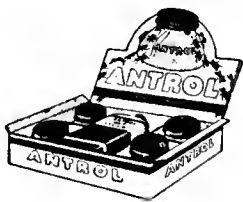
## BAG BALM

Made by the Kow Kare people. For caked bag, sore teats, bunches, chapping cuts or inflamed parts. Use this soothing ointment with perfect safety. Penetrating, quick healing. Clean, pleasant to use; cannot taint the milk. Will make decidedly easier milkers of your herd.

10-oz. size 60c, f. o. b. Portland.

## ANTROL KILLS ANTS QUICK!

### Kills Ants in the Nest



You need no longer be bothered by continual or periodic invasions of ants. Antrol is the simplest, most effective method of permanently controlling ants ever developed. It kills ants in the nest—destroying the queen and the entire colony—the only possible way to gain any lasting freedom from these pests.

Antrol Sets 75c; syrup, 4 oz. bottle 25c; pint bottles 65c; quarts \$1.00 f. o. b. Portland.

## ANTROL Ant Powder



This new improved powder kills ants, roaches, silverfish and other pests quicker by actual test. Packed in handy shaker, twist-top can.

Recommended for quick temporary relief in apartments, camps, summer homes, etc.

Price—2-oz. can 15c

## DR. L. D. LeGEAR'S Poultry and Stock Remedies

**DIP AND DISINFECTANT.** A very excellent disinfectant for poultry and stock, barns, kennels, etc. 8 oz. 35c; 1 qt. 75c; 1 gal. \$2.00, f. o. b. Portland.

**NICOTINE KAMALA PILLS** (chicks). For large round and tape worms in chicks and young turkeys. 45 to pkg. 50c; 110 to pkg. \$1.00; 500 to pkg. \$3.50; 1000 to pkg. \$6.00, f. o. b. Portland.

**NICOTINE KAMALA PILLS** (adults). For all types of worms in grown chickens and turkeys. 50 to pkg. \$1.00; 100 to pkg. \$1.75; 200 to pkg. \$3.00; 500 to pkg. \$7.00; 1000 to pkg. \$12.00, f. o. b. Portland.

**CHICK TABLETS.** Very beneficial to chicks as an intestinal astringent, also a mild antiseptic for drinking water. 80 tabs to pkg. 60c, f. o. b. Portland.

**LICE POWDER.** For dusting fowl and chicken houses to free them of lice. 14 oz. 30c, f. o. b. Portland.

**FLY AND INSECT POWDER.** Keep your poultry and stock free of flies and insects. 2 oz. 30c; bellow box 10c, f. o. b. Portland.

**POULTRY PRESCRIPTION.** An excellent conditioner and tonic for poultry. Small pkg. 30c; medium pkg. 65c; large pkg. \$1.40; 25 lbs. \$3.50, f. o. b. Portland.

**HOG PRESCRIPTION.** A general conditioner and tonic. Medium pkg. 75c, f. o. b. Portland.

**COW PRESCRIPTION.** A general conditioner and tonic. 2 lbs. 60c; 10 lbs. \$2.00, f. o. b. Portland.

## McClellan's Poultry Remedies

**BRONKI-OL-INHALANT.** A nasal spray. Very cooling, soothing, and beneficial therapeutic agent in affections of mucous membranes of throat and nostrils. 8 oz. 50c; 1 pt. 75c; 1 qt. \$1.25; ½ gal. \$2.00; 1 gal. \$3.25; 5 gal. \$15.00, f. o. b. Portland.

**CRESAFOWL LIQUID.** A scientific mineral conditioner for poultry, ducks, turkeys, geese. Especially recommended for baby chicks. 8 oz. 50c; 16 oz. 75c; 1 qt. \$1.00; ½ gal. \$1.75; 1 gal. \$3.00; 5 gal. \$12.50; 15 gal. (keg) \$30.00, f. o. b. Portland.

**CRESAFOWL POWDER.** 1½ lbs. 30c; 5 lbs. 85c; 12 lbs. \$1.80; 30 lbs. (pail) \$4.25, f. o. b. Portland.

**DISINFECTANT DIP.** An efficient disinfectant, germicide, insecticide and antiseptic. Recommended for spraying poultry houses, kennels, barns, etc. 8 oz. 35c; 1 pt. 45c; 1 qt. 60c; ½ gal. 90c; 1 gal. \$1.60; 5 gal. \$6.50, f. o. b. Portland. Write for prices of larger quantities.

**COMPOUND SODIUM FLUORIDE.** A high grade lice killer for dusting fowls. 15 oz. 30c; 2½ lbs. 70c, f. o. b. Portland.

**SODIUM FLUORIDE (PLANE).** Recommended to be used as a lice powder or for dipping. 1 lb. 45c; 5 lbs. \$1.75, f. o. b. Portland.

**RED MITE AND LICE KILLER.** Kills by contact. 1 qt. 60c; ½ gal. 90c; 1 gal. \$1.75; 5 gal. \$7.00, f. o. b. Portland.

**NOX-A-WEEVIL.** Destroys weevil, larvae, moths and other insects that infect cereals. 1 gal. \$4.50, f. o. b. Portland.

**POULTRY PRESCRIPTION 999.** Worm powder and poultry conditioner. 4 oz. 50c; 12 oz. \$1.25; 1½ lbs. \$2.25; 3 lbs. \$5.50; 5 lbs. \$6.25.

**TOE PICK.** Controls and overcomes the vicious habit of toe, wing and vent picking. 4 oz. 25c; 8 oz. 45c; 16 oz. 80c, f. o. b. Portland.

**CARBOLINEUM.** An excellent wood preserver and also a disinfectant for mites and blue bugs. 1 qt. 65c; ½ gal. \$1.00; 1 gal. \$1.75, f. o. b. Portland.

**ORTHOSOL.** A solution of the powerful germicides Ortho-Meta and Para-Cresols. 8 oz. 50c; 1 pt. 75c; 1 qt. \$1.00; ½ gal. \$1.75; 1 gal. \$3.00, f. o. b. Portland.

**PINESAN.** A deodorant and cleaner used in hospitals, jails, kennels, stables, etc. 1 pt. 75c; 1 qt. \$1.00; ½ gal. \$1.75; 1 gal. \$3.00, f. o. b. Portland.

**SHEEP DIP.** An efficient disinfectant, germicide, insecticide and antiseptic. 8 oz. 30c; 1 pt. 45c; 1 qt. 60c; ½ gal. 90c; 1 gal. \$1.60, f. o. b. Portland.

## AN-FO CALF MEAL

A steamed cooked food that completely replaces milk in calf feeding. The cost is only about one-fourth that of milk. High in digestible fat, the addition of An-Fo to skim milk makes a food very similar to whole milk. 25 lbs., \$1.25, f. o. b. Portland.



## RABBITS, RABBIT FOOD, REMEDIES, SUPPLIES

Our rabbit department is stocked with the leading rabbit foods and remedies, also the outstanding supplies. Tattoo ear markers, pet licks, feeders, books on feeding, care and breeding, hutch plans, etc.

List your surplus rabbit stock with us.

The Pacific Northwest Headquarters for "Easter Bunnies"!

## GUINEA PIGS, CAVIES, WHITE RATS, Etc.

A continual growing demand for caviae and white rats. We ask all breeders to list their surplus stocks with us. We can supply the best in breeding stock. A new book, "Raising and Care of Guinea Pigs", gives full information and complete illustrations. Price 65c, postpaid.

Write for FREE Books on the Care and Feeding of Dogs, Cats, Canaries or Gold Fish.

## FLY FOIL

Rid your home of flying pests! Flies, moths, mosquitoes, roaches, fleas, etc. An-Fo Fly Foil is deadly to these insects but harmless to everything else. Does not stain or spot materials.

A fly spray made from a pyrethrum base. The greatest killer among insects.

Very pleasant to use and does not have a lasting odor.

8 oz. 30c; 1 pt. 50c; 1 qt. 90c; 1 gal. \$2.75, f. o. b. Portland.



## China Nest Eggs

Best grade opal eggs. 3 for 15c; 12 for 50c postpaid.

LIME NEST EGGS. Indestructible. Three for 20c; doz. 60c postpaid.



For enclosures of all kinds, including poultry houses, hot beds, cold frames, screened porches, livestock sheds, etc. Brings in the ultra violet rays. Replace all the glass in your chicken houses, laying houses and scratch sheds with "Suntex" and egg production will increase.

Yard, 30 in. 28c; 36 in. 32c; 50-yard bolt, 30 in. \$12.75; 36 in. \$15.00.



PETTEY'S POULTRY PUNCH. Will not clog.

Price 25c postpaid.

SCISSOR POULTRY PUNCH. Strong and durable. Cuts clean. Price 20c postpaid.



## RAT NIP

All rats are ravenously fond of Rat-Nip. They just can't resist it. It tempts the young and draws the wily veterans from their lairs . . . Gets every single one within 24 hours after baiting.

Price 35c, f. o. b. Portland

## DEAD SURE RODENT DESTROYER

The High Pressure Poison Gas Cartridge positively kills gophers, squirrels, prairie dogs, moles, rats, weasels, rabbits, mice, skunks, foxes, snakes, wasps or anything that burrows in the ground.

Burns Under Water—Only poisonous when burning.

Price, dozen 60c, f. o. b. Portland. "WOOD-LARK" SQUIRREL AND GOPHER POISON. Quick, certain, deadly. Exterminates squirrels, sage rats, field mice, pocket gophers, prairie dogs, crows. Use early when green food is scarce. Price 1-lb. pkg. 50c, f. o. b. Portland



MORTON'S SUGAR CURING SMOKE SALT. It improves the flavor, eliminates the smoke house, makes meat curing easy, quicker and safer. Try it.

2 1/8-lb. cans 25c each; 10-lb. cans \$1.00 each, f. o. b. Portland.

LESLIE SALT. In prepared bricks. Prices f. o. b. Portland.

5 lb. bricks, each 15c.

Pet Licks for Rabbits.

Each 10c; 10 for 90c.



## Have Lovely Plants

You can have bushy, green, lovely house plants by giving ordinary care with regular FEEDING on Fulton's Plantabbs.

Plantabbs are convenient tablets containing all the food elements a plant requires without odor. Easy to use. Make the soil rich and plants thrive amazingly.

30 tablets 25c 200 tablets \$1.00  
75 tablets 50c 1000 tablets \$3.50

We strongly recommend Plantabbs because we do not know a single dissatisfied user.

FULTON'S  
**PLANTABBS**  
Odorless Plant Food Tablets

## DAIRY FLY FOIL

Free your cows of flies! Neither cows nor milkers need now be pestered by flies. Dairy Fly Foil is guaranteed to fill the flies on cows and to keep them off all day. A new, clean spray that does not taint milk nor gum hair. Economical,—a little goes a long way. Dairy Fly Foil helps get more milk—makes milking easier.

1 qt. 60c; 1/2-gal. \$1.00; 1 gal., \$1.50; 5 gal. \$6.75. Write for prices on larger quantities.



Protect that evergreen—keep dogs away. Remove cap and hang tube of Dawg-Gone (opening down) in the lower branches of trees at the points of approach. Not necessary to place tubes in every tree unless standing alone. The odor slowly emanating from the open tube will keep dogs at a distance—replaces unsightly wire screens or mechanical contrivances. Mailable Tubes—35c each or 3 for \$1.

# • Bird Foods, Supplies and Remedies •

**W**E wish that you might have an opportunity to visit the beautiful Bird Studio in our new retail store at 204 Yamhill Street, in Portland, Oregon. It is one of the largest and finest in the Pacific Northwest and offers to all bird lovers a selection of American and imported birds found only in pet stores of the larger cities of the eastern states. St. Andreasberg, Hartz Mountain Singers, German Rollers, Glucke and Water Glucke Rollers, Seifert Rollers and many other types of canaries. Yellow, green and blue love birds; many varieties of imported parakeets; Mexican Cardinals, Central American blue birds, several kinds of finches and other rare varieties of birds. Write for information and prices.

After several years of careful study and continuous experimenting, the Portland Seed Company is now presenting two of the finest mixtures of bird seed to be found on the American market. These new scientifically blended mixtures each contain eight varieties of double cleaned and air washed seed.

The two blends—"R R" SPECIAL and "ROLLER"!

**"R R" SPECIAL.** Sold only through our mail order department and our two stores in Portland. Contains no hemp or millet seed and is put up only in 10-oz. packages. 20c, postpaid.

**ROLLER BIRD SEED.** If your dealer cannot supply you, send to our mail order department. Contains the eight necessary seeds for singing canaries. 1-lb. package 25c, postpaid; 5 lbs. for \$1.00, postpaid.

**DIAMOND QUALITY BIRD SEED.** A very popular variety for colder climates. Contains: Hemp, sweet rape, canary, millet, maw, and Nigar seed. Air cleaned and sterilized! 10-oz. pkg. 15c; 1-lb. pkg. 20c; 10 lbs. for \$1.35, postpaid.

**DIAMOND LOVE BIRD MIXTURE.** A perfectly balanced food prepared especially for parakeets or love birds. Clean, free of dust and impurities. 1-lb. pkg. 30c, postpaid. 5 lbs. for \$1.10, postpaid.

**DIAMOND BIRD SAND.** Silver washed, white sand, clean and pure. Should be sprinkled daily over the paper on the floor of the cage. 1½-lb. carton 15c, postpaid. In bulk—5 lbs. 30c; 10 lbs. 50c, F. O. B.

**DIAMOND BIRD GRAVEL.** "Health Grit," a pure white small uniform gravel grit, beneficial to all birds. 1½-lb. carton 15c, postpaid. In bulk—5 lbs. 30c; 10 lbs. 50c, F. O. B.

**DIAMOND CUTTLE BONE.** 2 large cuttle bones for 10c, postpaid.

**DIAMOND QUALITY SEEDS FOR SPECIAL MIXTURES:**

Maw.

Lettuce.

Canary. 1 lb. 20c; 10 lbs. \$1.50, postpaid.

Hemp. 1 lb. 20c; 10 lbs. \$1.50, postpaid.

Rape. 1 lb. 20c, 10 lbs. \$1.50, postpaid.

Millet. 1 lb. 20c; 10 lbs. \$1.50, postpaid.

## Haller's Bird Food Preparations

**HEALTH FOOD.** 4 oz. 30c, postpaid.  
**DUTCH SONG RESTORER.** 2 oz. 30c, postpaid.

**"HA HA" SONG FOOD.** (Seeds of the wild). 3½ oz. 30c, postpaid.

**CANARY BIRD PIE.** 15c, 2 for 25c, postpaid.

## JUSTRITE BIRD LINE

**HONEY ROLL.** An excellent "sweet treat" for birds. 5c.

**HONEY ROLL with bell.** A "sweet treat" with bell. 10c.

**BIRD TONIC.** Gives bird vitality and pep. 1 oz. 25c.

**BIRD BITTERS.** Heart stimulator. 1 oz. 25c.

**IRON TONIC.** Blood conditioner. 1 oz. 25c.

**IRON TONIC Jr.** Blood conditioner. ¾ oz. 10c.

**SONG RESTORER.** General tonic. 3 oz. 25c.

**SONG RESTORER Jr.** General tonic. 1 oz. 10c.

**VITAMINE HEALTH FOOD.** Vitamins A, B, C, D. 3½ oz. 25c.

**VITAMINE HEALTH FOOD Jr.** Vitamins A, B, C, D. 1½ oz. 10c.

**MOULTING FOOD.** Feed during moulting. 3 oz. 25c.

**MOULTING FOOD Jr.** Season. 1 oz. 10c.

**BIRD WASH.** An excellent antiseptic. 1 oz. 25c.

**CAGE CLEANER AND LICE DESTROYER.** 4½ fl. oz. 25c.

**No. 1 CUTTLE BONE.** Large size 10c.

**BIRD SALVE.** For scaly legs. 15c.

**BIRD CHARCOAL.** Birds should have it. 10c.

**CUP CLEANER.** Very handy. 10c.

## Spratt's Bird Products

**BIRD SEEDS AND FOODS**

Mixed Bird Seed. 15 oz. 30c, postpaid.

Roller Canary Mixture. 15 oz. 30c, postpaid.

Canary Mixture (with egg flakes and fruit). 6 oz. 30c, postpaid.

Cage Bird and Nestling Food (with cod liver oil). 4 oz. 20c; 9 oz. 30c.

Moulting Food. 15 oz. 30c, postpaid.

Parakeet and Love Bird Mixtures. 15 oz. 30c, postpaid.

Cuttle Fish Bone (with holder). 10c, postpaid.

Parrot Mixture. 16 oz. 30c, postpaid.

Pollicrackers. 10 oz. 25c, postpaid.

Defiance Mocking Bird Food. 8 oz. 25c, postpaid.

Finch Mixture. 15 oz. 30c, postpaid.

Ants' Eggs (for mocking birds, larks, thrushes, blackbirds, robins, and other soft billed birds. Quail and other game birds. Also excellent diet change for fish and other aquarium animals). 1½ oz. 15c, postpaid.

Special Bird Food Kit (Mixed bird seed, Sing-Song, canary seed mixture (with egg flakes and fruit), bird gravel, cuttle bone, Song Restorer, Porcelain Treat Cup and a 40-page book, "Canaries, Their Varieties and Management." All for 65c, postpaid.

**TONICS, SALVES, Etc.**

Canaradyne. 1 oz. 30c, postpaid.

Flake Charcoal. 1 oz. 20c, postpaid.

Song Restorer. 1½ oz. 20c; 4 oz. 30c, postpaid.

Bird Lice Powder. In gun, 30c, postpaid.

Bird Wash. 3 fl. oz. 30c, postpaid.

Pariot Tonic. 3 oz. 35c, postpaid.

Bald Head Salve. 20c, postpaid.

Foot Salve. 20c, postpaid.

Mitilene. 30c, postpaid.

Bird Tonic. 1 oz. 15c; 3 oz. 30c, postpaid.

Quinella (Tibbs). (An astringent to the mucous membrane of the intestines of all birds). Per jar 30c, postpaid.

**SPRATT'S NESTING HAIR.** Per box 15c, postpaid.

## Champion Bird Supplies

**SEED BELLS.** A manna "treat", bell shape, hangs from top of cage, with a brass tingle bell. Each 15c, 2 for 25c, postpaid.

**BON-BONS.** Same as bells only half oval, with side fasteners. 3 for 20c, postpaid.

**VEGETABLE DINNER.** A new product! Vegetables, seeds and roots in filler-spout cans. Each 15c, 2 for 25c, postpaid.

**IRON TONIC.** An excellent health protector and builder. 1 oz. 30c, postpaid.

**ANTISEPTIC WASH.** Prevents exterior bird ailments. 1½ oz. 30c, postpaid.

**LICE POWDER.** Kills lice without harming bird. Pkg. 15c, postpaid.

**BIRD SALVE.** Heals tender legs and skin irritations. Can 25c, postpaid.

## Max Geisler's Bird Remedies

**SONG AND HEALTH FOOD.** 4 oz. 30c, postpaid.

**EGG BIRD BISCUIT.** 1 oz. 30c, postpaid.

**MOULTING FOOD.** 3 oz. 20c, postpaid.

**FIRST AID TONIC.** 1 fl. oz. 35c, postpaid.

**COLD TONIC.** 1 fl. oz. 35c, postpaid.

## Kaemper's "Big Kernal" Preparations

**BIRDOLINE.** 3 oz. 30c, postpaid.

**HIGHBALLS.** 2 for 25c, postpaid.

**ASTHMA TABLETS.** 50 tablets to the box. 30c, postpaid.

**EGG FOOD.** 2½ oz. 30c, postpaid.

**FOOT LINIMENT.** 2 oz. 30c, postpaid.

**OYSTER SHELL.** Pkg. 15c, postpaid.

# • DOG AND CAT REMEDIES •

## "Q-W" Dog Remedies

Prices postpaid.

- DOG SOAP.** Kills fleas, mange and dandruff. 35c, 3 for \$1.00.
- MANGE LOTION.** Dressing for mange, eczema and ringworms. 8 oz. \$1.00; qt. \$3.25.
- SULPHUR COMPOUND SOLUTION.** Oldest skin curative known. \$1.00.
- FLEA POWDER.** Quickest way to eradicate fleas. Per box \$1.00.
- FLEA OIL AND COAT DRESSING.** Kills fleas, lice, ticks and their eggs. Pt. \$1.00; qt. \$1.75.
- CONDITION POWDER.** All round general conditioner. \$1.00.
- WORM MIXTURE.** Quickest worm expeller. 4 oz. \$1.00.
- WORM CAPSULES.** For those who prefer capsules. Tin \$1.00.
- DISEROL.** For distemper, choler, pneumonia, etc. 6 oz. \$2.00.
- PHOSPHATED COD LIVER OIL COMPOUND (With Lime).** Pint \$1.25.
- NERVE SEDATIVE TABLETS.** For fits, convulsions, twitching, etc. \$1.25.
- SALICYLATE COMPOUND TABLETS.** For rheumatism, stiffness, etc. \$1.00.
- LINIMENT.** For sore muscles, weak legs, etc. \$1.25.
- BREEDER'S TABLETS.** \$2.00.

## Spratt's Dog Medicines

Prices postpaid.

- SULPHUR TABLETS.** To cool blood. 60c.
- NERVE SEDATIVE TABLETS.** For fits and convulsions. 60c.
- ALTERATIVE TABLETS.** Arsenic, Iron and Sulphur Compound. 60c.
- COUGH TABLETS.** 60c.
- ASTRINGENT TABLETS.** For excessive secretion. 60c.
- "SPECIAL" TABLETS.** A diuretic and stimulant. \$1.00.
- DIP DISINFECTANT.** For dog and kennels. 60c.
- EAR CANKER OINTMENT.** 75c.
- OINTMENT.** For superficial varieties of mange and eczema. 60c.
- FLEA POWDER.** 30c.
- DIURETIC TABLETS.** Aids in discharge of urine. 60c.
- LAXATIVE TABLETS.** 60c.
- MANGE MEDICINE.** 75c.
- PURGATIVE TABLETS.** Strong laxative. 60c.
- TAPE WORM TABLETS.** For dogs and foxes. 65c.
- TONIC AND CONDITION TABLETS.** When preparing for exhibition. 65c.
- CAPSULES FOR ASCARIDS** and large round worms. 60c.
- CAPSULES FOR ASCARIDS** and large round worms in puppies. 60c.
- TONIC AND CONDITION TABLETS** for toy dogs and puppies. 60c.

## PULVEX

Considered by many who know—"Pulvex is the world's finest flea powder." It not only kills all the fleas—but also keeps them off for days.

It was found that Pulvex keeps fleas and lice off dogs for days. Repeated tests showed that when dogs were dusted with Pulvex they could be locked up with dogs infested with fleas—and yet remain free from fleas for days.

Too much emphasis cannot be given to the fact that Pulvex is harmless. Although certain death to parasites, it will not harm a dog or cat. When Pulvex is rubbed on the animal's hide, no irritation results.

Fleas carry tapeworms! Fifty tapeworms in the embryo stage have been found in one flea.

Pulvex will keep your canaries free from lice and bloodsucking mites. Equally effective for poultry.

2-oz. size 60c; 12-oz. size \$1.35; postpaid.

## PULVEX SOAP

Once you start washing your dog with Pulvex Dog Soap, you will continue washing him with this remarkable soap because it does so much more than to simply wash him absolutely clean.

By using Pulvex Soap your dog will never have that "doggy" odor which, while unnoticeable to you, may be noticed by your friends.

It will give your dog's hair a most beautiful gloss and silkiness that he will appear as though he were specially groomed.

One bar, 60c, postpaid.

## HUMANE DOG REMEDIES

Prices postpaid

- CATHARTIC PILLS.** You should have them in reserve. 35c.
- CONDITION PILLS.** Good for all types of dogs. 35c.
- DIGESTIVE TABLETS.** Great aid to digestion. 35c.
- DOG SOAP.** Prevents dry skin and unpleasant odors. 35c.
- FIT AND SEDATIVE TABLETS.** Just what the name implies. 35c.
- FLEA POWDER.** Free your dog or cat of pests. 35c.
- INTESTINAL ASTRINGENT TABLETS.** Builds up and improves. 35c.
- RUMATIC TABLETS.** Just what the name implies. 35c.
- WORM CAPSULES FOR DOGS.** Round and tape worms. 35c.
- WORM CAPSULES FOR PUPPIES.** Round and tape worms. 35c.

## From our library we offer to our patrons •

- Canaries, Varieties and Management. Spratt's. 15c, postpaid.
- Canary Breeding and Training. Page. 40c, postpaid.
- Canaries and Other Cage Birds. Albright. 40c, postpaid.
- Canary Management. Robson. 65c, postpaid.
- Diseases of Cage Birds. Greene. 80c, postpaid.
- Feathered Pets. Page. 40c, postpaid.

## Sergeant's Dog Medicines

Prices postpaid.

- SPECIAL MEDICINE.** Fever reducer. \$1.25.
- MANGE MEDICINE.** 70c.
- CONDITION PILLS.** General conditioning. 65c.
- SURE SHOT CAPSULES.** For round worms. 65c.
- PUPPY CAPSULES.** Round worms (small breeds). 65c.
- TAPEWORM MEDICINE.** 65c.
- COMPOUND ARSENIC AND IRON PILLS.** General conditioner. 65c.
- CANKER WASH.** 65c.
- LINIMENT.** For sore and pulled muscles. 60c.
- NERVE SEDATIVE MEDICINE.** For fits. \$1.25.
- SKIP-FLEA SOAP.** 30c.
- SKIP-FLEA POWDER.** 30c.

## Dr. Clayton's Cat Medicines

Prices postpaid.

- SARCOPTIC MANGE MEDICINE.** 65c.
- KETERALINE (liquid).** 65c.
- KETERALINE (tablets).** 65c.
- TONIC CATNIP CONDITION (tablets).** 60c.
- CAT ALTERATIVE (tablets).** 65c.
- CARMINATIVE (tablets).** 65c.
- WORM TABLETS.** 60c.
- TAPE WORM EXPELLER (tablets).** 60c.
- CAT CANKER LOTION (tablets).** 60c.
- CAT EYE LOTION (tablets).** 60c.
- SEDATIVE TABLETS.** 60c.
- COUGH SYRUP.** 60c.
- MOUTH WASH.** 60c.
- KILFLEA POWDER.** 35c.
- CAT SOAP.** 30c.

## Glover's Imperial Medicines

Prices postpaid

- KENNEL FLEA SOAP.** Kills fleas and improves fur. 35c.
- MANGE MEDICATED SARCOPTIC.** Excellent for mange. 85c.
- MEDICATED SOAP.** Marvelous for both dog and humans. 40c.
- FEVER REDUCER STIMULATE.** Should have it in reserve. \$1.35.
- NERVE SEDATIVE TABLETS.** Quiets unsteady nerves. 75c.
- ROUND WORM CAPSULES.** Dogs, cats, puppies, foxes. 75c.
- ROUND WORM VERMIFUGE.** Dogs, cats, puppies, foxes. 75c.
- TAPE WORM CAPSULES.** Dogs, cats, puppies, foxes. 75c.

- Parrakeet Breeding for Profit. Glick. \$1.05, postpaid.
- Parrots and Cage Birds. Spratt's. 30c, postpaid.
- Parrots and Other Talking Birds. Page. 40c, postpaid.
- Popular Parrakeets. Greene. 80c, postpaid.
- Roller Canary, The. House. \$1.05, postpaid.
- Wild Plants and Seeds (for birds). Morse. 80c, postpaid.



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## PLANTING TABLES

Quantity per acre	
Artichoke, 1 oz. to 500 plants	6 oz.
Artichokes—White French	8 bu.
Asparagus, 1 oz. to 800 plants	1 lb.
Asparagus Roots	7500
Barley	2 to 2½ bu.
Beans, dwarf, 1 lb. to 100 ft. of drill	1 bu.
Pole, 1 lb. to 100 hills	½ bu.
Beet, Garden, 1 oz. to 100 ft. drill	6 to 7 lbs.
Mangel, 1 oz. to 100 ft. of drill	5 lbs.
Broccoli, 1 oz. to 2000 plants	4 oz.
Brussels Sprouts, 1 oz. to 2000 plants	4 oz.
Buckwheat	½ to 1 bu.
Cabbage, 1 oz. to 2000 plants	4 oz.
Carrot, ½ oz. to 100 ft. of drill	3 lbs.
Cauliflower, 1 oz. to 3000 plants	3 to 4 oz.
Celery, 1 oz. to 5000 plants	4 oz.
Cheat	2 bu.
Clover, Alsike and White	8 to 10 lbs.
Alfalfa	15 to 20 lbs.
Crimson Trefoil or Red	10 to 15 lbs.
Collards, 1 oz. to 2000 plants	4 oz.
Corn, Pop (shelled)	8 to 10 lbs.
Sweet or Field, hills	12 to 15 lbs.
For soiling drills	3 bu.
Cress, ¾ oz. to 100 ft. drill	1 lb.
Cucumber, 1 oz. to 100 hills	2 to 3 lbs.
Egg Plant, 1 oz. to 2000 plants	4 oz.
Emmer	100 lbs.
Endive, ¼ oz. to 100 ft. drill	4 lbs.
Flax broadcast	¾ bu.
Grass—Kentucky Blue, pasture	1 to 2 bu.
Kentucky Blue, lawns	100 lbs.
Meadow Fescue	1 bu.
Mixed Lawn	5 to 6 bu.
Red Top, Chaff	1 to 2 bu.
Red Top, solid seed	10 to 15 lbs.
Timothy	10 to 15 lbs.
Orchard, Perennial Rye	1 to 2 bu.
Wood Meadow	1 bu.

Quantity per acre	
Horseradish Roots	15,000 to 25,000
Kale, 1 oz. to 2000 plants	4 oz.
Kohl Rabi, 1 oz. to 2000 plants	4 oz.
Leek, 1 oz. to 100 ft. of drill	4 lbs.
Lettuce, 1 oz. to 150 ft. of drill	3 lbs.
Melon, Musk, 2 oz. to 100 hills	2 to 3 lbs.
Water, 4 oz. to 100 hills	3 to 4 lbs.
Millet—For Seed	20 lbs.
For Hay	30 lbs.
Oats	2 to 3 bu.
Okra, 1 oz. to 100 ft. of drill	8 lbs.
Onion Seed, for sets	60 to 85 lbs.
1 oz. to 150 ft. drill	3 to 4 lbs.
Onion Sets, 1 qt. to 40 ft. drill	8 bu.
Parsley, 1 oz. to 150 ft. drill	3 lbs.
Parsnips, 1 oz. to 150 ft. drill	3 lbs.
Peas, Field	2 bu.
Garden, 1 lb. to 100 ft. drill	1 to 2 bu.
Pepper, 1 oz. to 1000 plants	2 lbs.
Potatoes	10 bu.
Pumpkin, ½ lb. to 100 hills	3 to 5 lbs.
Radish, 1 oz. to 100 ft. drill	10 lbs.
Rape	3 to 5 lbs.
Rye	1½ to 2 bu.
Salsify, 1 oz. to 100 ft. drill	6 to 8 lbs.
Spinach, 1 oz. to 100 ft. drill	8 to 10 lbs.
Sunflower	8 lbs.
Squash—Summer, 4 oz. to 100 hills	3 lbs.
Winter, 8 oz. to 100 hills	4 lbs.
Tomato, 1 oz. to 2000 plants	4 oz.
Turnip, 1 oz. to 150 ft. drill	2 to 3 lbs.
Vetches	1½ to 2 bu.
With Grain	1 bu.
Wheat	1½ to 2 bu.

WEIGHTS OF VARIOUS ARTICLES	
Per Bushel	
Artichokes	60 lbs.
Barley	48 lbs.
Beans	60 lbs.
Buckwheat	48 lbs.
Blue Grass, Kentucky	14 lbs.
English	24 lbs.
Cheat	34 lbs.
Clover Seed	60 lbs.
Corn, shelled	56 lbs.
Emmer	40 lbs.
Flax Seed	56 lbs.
Grass Seeds (unless otherwise stated)	14 lbs.
Hemp Seed	44 lbs.
Hungarian Millet	48 lbs.
Lawn Grass	20 lbs.
Meadow Fescue	24 lbs.
Millet	50 lbs.
Oats	32 lbs.
Onion Sets	32 lbs.
Orchard Grass	14 lbs.
Peas, smooth	60 lbs.
Peas, wrinkled	56 lbs.
Perennial Rye	20 lbs.
Potatoes	60 lbs.
Rape	60 lbs.
Rye	56 lbs.
Red Top	14 lbs.
Red Top, solid seed	42 lbs.
Timothy	45 lbs.
Vetches	70 lbs.
Wheat	60 lbs.

## Date.....

Write Name and Address Plainly

Post Office.. .....

R. F. D. No. or Street.....

Station .....

County..... State.....  
Be Sure to Give Name of County

Ship By:    Mail..... Express..... Freight.....  
                    Check Method of shipment desired

**Always Write Letters on a Separate Sheet from This Order.**

Do not write above this line.

**Please send Money Order if possible.**

AMOUNT PURCHASED

.....cts.

Parcel Post, Express and Freight Station without an Agent must be prepaid. To cover charges if prepaid, add:

\$ .....cts.

TOTAL AMOUNT ENCLOSED

.....cts.

**PARCEL POST SHIPMENTS.** For points beyond the 4th Zone include additional postage.

For insurance for over \$5.00 and less than \$10.00 send 10c additional.

Do not request C. O. D. shipments as expense of collection is too high. Send money order covering the amount of the order wherever possible as banks charge for collecting personal checks.

Stamps are acceptable for any amount less than \$1.00.

Use the order blank and return envelope. Be sure that your name and full address are filled in and that your remittance comes with the order.

Observing these instructions will expedite the filling of your orders promptly and give us less cause for making mistakes.

Diamond Quality Seeds, bulbs and nursery stocks are guaranteed as to vitality and purity, but we give no warranty, expressed or implied, as to description or productiveness, neither will we be held responsible for the crop nor liable for more than the amount paid us for the seeds, bulbs or nursery stock should they fail to grow, we to replace or refund at our option.

**CONTINUE ORDER ON OTHER SIDE**





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Again Make This Outstanding Offer

IF you want an all-year flower garden, we recommend that you subscribe to Sunset Magazine. By special arrangement we are able to offer you the Sunset Garden Book free with a subscription at the regular rate of only \$1.00 for two years.

The Sunset Garden Book is just the thing you need to answer all of those perplexing questions of what to plant and when to do it in order to have flowers practically the year around. It is an all-coast planting guide and contains numerous special notations for Washington and Oregon as well as supplementary material for the Northwest prepared by Cecil Solly, noted Seattle garden authority.

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PORTLAND SEED COMPANY.

## *Is Your Canary A Connoisseur of Fine Bird Seed?*

Have you ever noticed all of the seed your canary refuses to eat\_\_\_\_\_?

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16 oz. "Canaries Sing For It" **25c**  
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# A Saving on Vegetable Seeds

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### No. 1—*Fresh Vegetable Salad*

No Changes from this Selection

**Lettuce:** Portland Seed Company's  
Crispette

**Radishes:** Crimson Giant

**Cucumbers:** Davis Perfect

**Beets:** Portland Seed Company's  
Market Gardeners

**Green Onions:** White Bunching

**Carrots:** Portland Seed Company's  
New Coreless

Six packets {postpaid} for 25c

### No. 2—*Vegetable Casserole*

No Changes from this Selection

**Peas:** Gradus

**Beans:** Portland Seed Company's  
Oregon Giant Greenpod

**Corn:** Golden West

**Spinach:** Improved Thick Leaf

**Cabbage:** Danish Ballhead

**Turnip:** Purple Top White Globe

45c value {postpaid} 35c

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## *Sweet Pea Collection*

Nine select varieties, with the most beautiful shades, long stems, and large blooms.

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A beautiful deep crimson giant flower.

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An outstanding pure white variety with long stems.

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The best giant rich purple type for Northwest climate.

### ASCOT

A very clear distinctive light rose pink flower.

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A deep rich oxblood maroon. Long blooming variety.

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Pure rich lavender with long sturdy stems.

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Beautiful clear cornflower blue. Truly outstanding.

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True keen color of rich salmon orange.

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Two each of the  
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A new color, warm, light coral, with pale throat.  
A prize winner!

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A fine early lavender, mostly open buds. A prize winner!

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A beautiful clear light blue, with excellent spike.

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Iridescent pink to rose salmon, many flowers open.  
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## *Dahlia Collection*

Six of the best  
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Bright golden yellow with fine long stems.

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Giant flowers of rich bronze pink. Strong stems.

### MISSION BELLE

Immense blooms of old rose and lavender. Long erect stems.

### YANKEE QUEEN

Large flowers, almost white in center, shading to beautiful pink edges.

### BEAR CLAWS

Large incurving ruby red cactus with good stems.

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Giant wine maroon, tipped and marked white; fine stems.

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Six of the most beautiful  
New Varieties

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Rich flaming pink, shaded golden yellow. The most popular rose grown.

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Deep golden yellow flowers of medium size. A sturdy, stiff stemmed grower.

### ETOILE DE HOLLANDE

Brilliant red blooms of magnificent size. Quite fragrant, strong and free branching.

### JOANNA HILL

A slender daintily colored variety of orange yellow. Exceptionally fine for cutting.

### MARGARET McGREDY

Orange scarlet or brick red. Heavy, beautiful foliage and stout stems.

### TALISMAN

A mixture of orange and yellow which varies in the different blooms. Most popular of late introductions.

*All Vegetable Packets ~ Now 5¢!*